CDX-V3800

SERVICE MANUAL

E Model
Chinese Model

Ver. 1.3 2006.05

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-611MM-186//K
Optical Pick-up Name	KSS1000E

SPECIFICATIONS

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit
Signal format system	PAL/NTSC

Tuner section

FM

Tuning range	FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM

Tuning range	AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	52 W × 4 (at 4 ohms)

General

Outputs	Audio output terminals (front, rear/sub switchable) Video output terminal Power aerial relay control terminal Power amplifier control terminal
Inputs	AUX IN terminal Parking break control terminal Aerial input terminal
Tone controls	Low: ±10 dB at 60 Hz (XPLOD) Mid: ±10 dB at 1 kHz (XPLOD) High: ±10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 179 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Card remote commander RM-X158

Design and specifications are subject to change without notice.

FM/AM MULTI MEDIA PLAYER

9-879-406-04 **Sony Corporation**
2006E04-1 **eVehicle Division**
© 2006.05
Published by Sony Techno Create Corporation

SONY

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

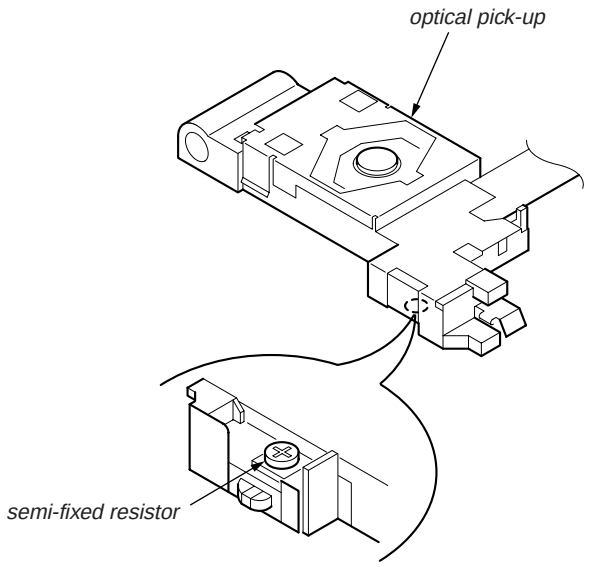
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

E model

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

Chinese model

1类激光产品

此标签位于机壳的底部。

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	
MP3 files	

- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

Notes on Video CDs

This unit can play the following discs:

Type of discs	Label on the disc
Video CD VCD	

A compact disc that contains moving pictures.
The picture data uses the MPEG 1 format (Video CD), worldwide standards of digital compression technology.
Video CDs also contain compact audio data.
Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed.

● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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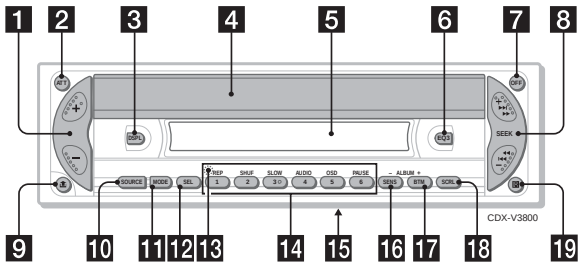
SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls

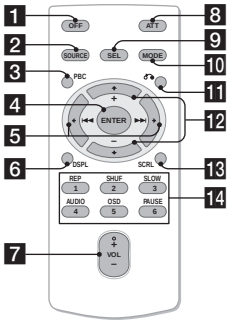
Refer to the pages listed for details.



1 **Volume +/– button**
2 **ATT (attenuate) button** 17
3 **DSPL (display mode change) button** 11, 14
4 **OPEN/EJECT shutter** 11, 12
5 **Display window**
6 **EQ3 button** 18
7 **OFF (Stop/Power off) button***1 10, 12, 18
8 **SEEK +/– button**
Radio:
To tune in stations automatically/find a station manually.
CD/VCD:
To skip tracks/fast-forward, reverse a track.
9 **(front panel release) button** 10
10 **SOURCE (Power on/Radio/CD/AUX) button**
To select the source.
11 **MODE button**
To change the operation.
12 **SEL (select) button**
To select items.
13 **RESET button** (located on the front side of the unit, behind the front panel) 9
14 **Number buttons** 17
Radio:
To store stations/receive stored stations.
CD/VCD:
(1): **REP** 15
(2): **SHUF** 15
(3): **SLOW** 13
(4): **AUDIO** 14
(5): **OSD** 19
(6): **PAUSE** 12, 13
15 **Frequency select switch** (located on the bottom of the unit)
See "Frequency select switch" in the Installation/Connections manual.
16 **SENS/ALBUM – button** 12, 16
17 **BTM/ALBUM + button** 12, 15
18 **SCRL (scroll) button** 14
19 **Receptor for the card remote commander**

*1 **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears. Otherwise, the display does not turn off and this causes battery drain.

Card remote commander RM-X158



The corresponding buttons of the card remote commander control the same functions as those on this unit.

1 **OFF button**
2 **SOURCE button**
3 **PBC button 14**
4 **ENTER button 14**
5 **⬅ (I◀◀)/➡ (▶▶I) buttons**
6 **DSPL button**
7 **VOL (+/–) button**
8 **ATT button**
9 **SEL button**
10 **MODE button**
11 **(return) button 14**
12 **⬆ (+)/⬇ (–) buttons 14**
13 **SCRL button**
14 **Number buttons**

Note
If the display disappears by pressing (OFF), it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery" on page 20.

Selecting an album with the card remote commander
Album can be skipped using ⬆ (+)/⬇ (–) on the card remote commander.

To	Press
Skip albums* – Album selection	⬆ or ⬇ [once for each album] To continuously skip albums, press and hold either button.

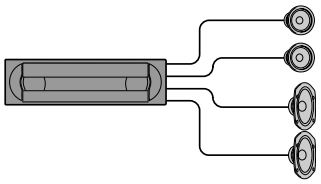
** Available only when an MP3 file is played.*

Skipping tracks continuously
Press once ⬅ or ➡ on the card remote commander, then press again within 2 seconds and hold.

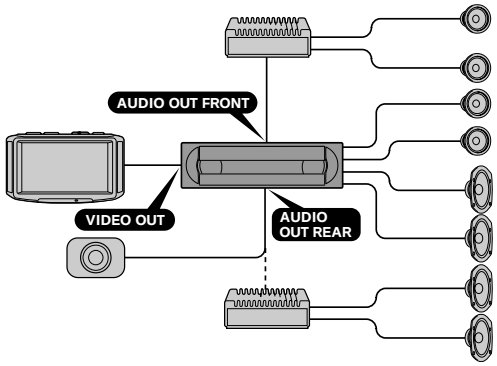
CONNECTIONS

2

A



B



Connection example (2)

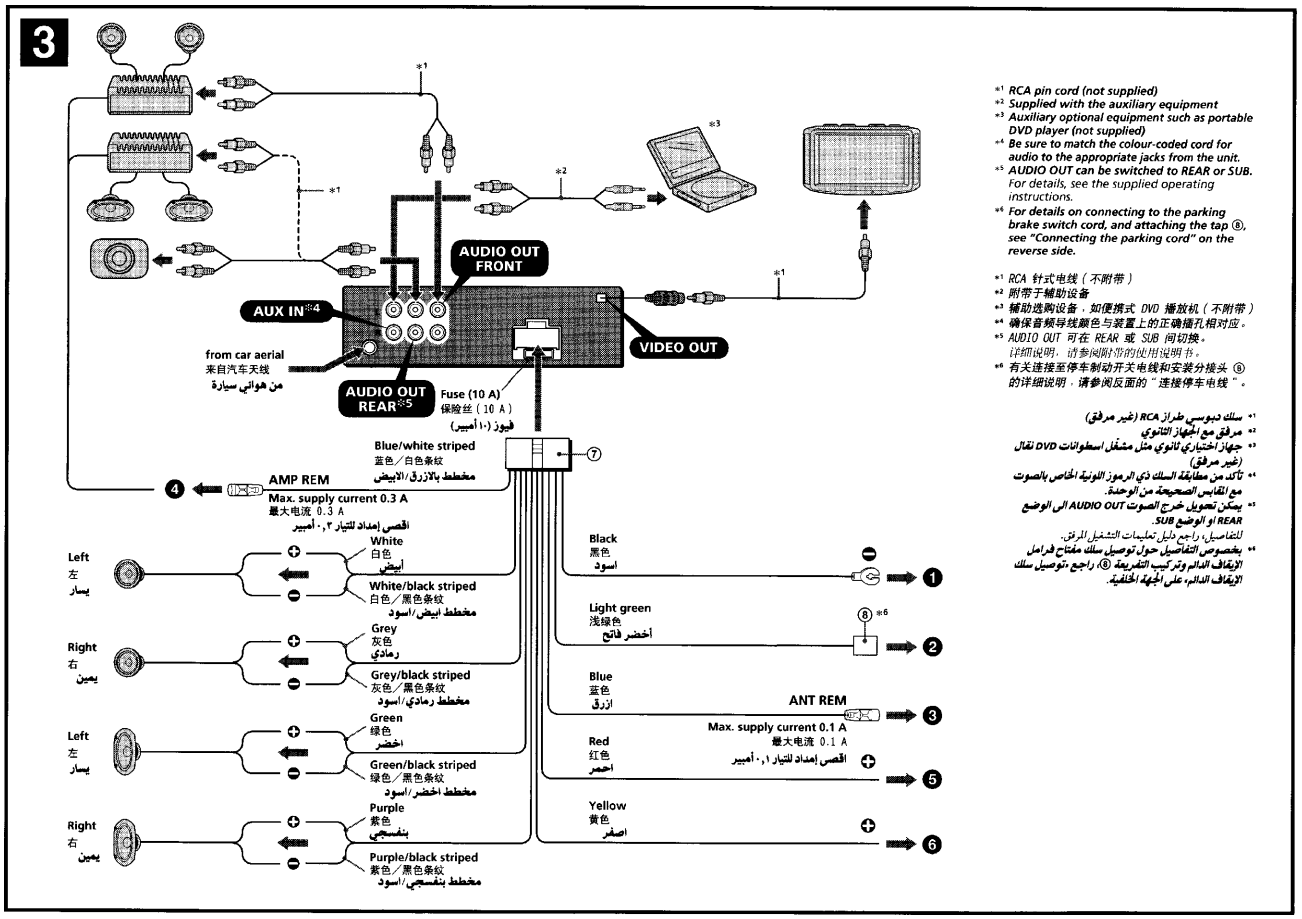
***Notes* (2-B)**
- *Be sure to connect the earth lead before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

线路连接图例（2）

注（2-B）
- *务必在连接放大器之前连接接地线。*
- *如果您连接选购的功率放大器而不使用内置放大器，则无嘟声功能。*

مثال على التوصيل (2)

ملاحظات (2-B)
- *تأكد من توصيل سلك التأريض قبل توصيل المضخم.*
- *إذا قمت بتوصيل مضخم قدرة إختياري ولم تستخدم مضخم داخلي، سوف يتم تعطيل مفعول الصوت «بيب».*



*1 RCA pin cord (not supplied)
*2 Supplied with the auxiliary equipment
*3 Auxiliary optional equipment such as portable DVD player (not supplied)
*4 Be sure to match the colour-coded cord for audio to the appropriate jacks from the unit.
*5 AUDIO OUT can be switched to REAR or SUB. For details, see the supplied operating instructions.
*6 For details on connecting to the parking brake switch cord, and attaching the tap ⑧, see "Connecting the parking cord" on the reverse side.

*1 RCA 针式电线（不附带）
*2 附带于辅助设备
*3 辅助选购设备，如便携式 DVD 播放机（不附带）
*4 确保音频导线颜色与装置上的正确插孔相对应。
*5 AUDIO OUT 可在 REAR 或 SUB 间切换。详细说明，请参阅附带的使用说明书。
*6 有关连接至停车制动开关电线和安装分接头 ⑧ 的详细说明，请参阅反面的“连接停车电线”。

*1 سلك ديبوسي طراز RCA (غير مرفق)
*2 مرفق مع الجهاز الثانوي
*3 جهاز اختياري ثانوي مثل مشغل اسطوانات DVD نقال (غير مرفق)
*4 تأكد من مطابقة السلك ذي الرموز اللونية الخاص بالصوت مع المقابس الصحيحة من الوحدة.
*5 يمكن تحويل خرج الصوت AUDIO OUT الى الوضع REAR او الوضع SUB. للتفاصيل، راجع دليل تعليمات التشغيل المرفق.
*6 بخصوص التفاصيل حول توصيل سلك مفتاح فرامل الإيقاف الدائم وتركيب التفريعة ⑧، راجع «توصيل سلك الإيقاف الدائم» على الجهة الخلفية.

Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black earth lead, then connect the yellow and red power input leads.

❷ **To the parking brake switch cord**
Be sure to connect the parking cord (light green) to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car. Refer to the connecting the parking cord on the reverse side and consult your car dealer or your nearest Sony dealer for further details.

❸ **To the power aerial control lead or power supply lead of aerial booster amplifier**

Notes
- *It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.*
- *When your car has a built-in FM/AM aerial in the rearlside glass, see "Notes on the control and power supply leads."*

❹ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❺ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**

Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.*
  Be sure to connect the black earth lead to a metal surface of the car first.
- *When your car has a built-in FM/AM aerial in the rearlside glass, see "Notes on the control and power supply leads."*

❻ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black earth lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM aerial in the rearlside glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

线路连接图（3）

❶ **至汽车金属表面**
首先连接黑色接地导线，然后连接黄色和红色电源输入导线。

❷ **至停车制动开关电线**
确保将停车电线（浅绿色）连接到停车制动开关电线。停车制动开关电线的安装位置视您的汽车而定。详细说明，请参阅反面的连接停车电线，并与您的汽车经销商或就近的 Sony 经销商联系。

❸ **至电动天线控制导线或天线升压放大器的电源导线**

注
- *如果没有电动天线或天线升压器，或有手动伸缩式天线，则无需连接此导线。*
- *若汽车的后／侧玻璃内有内置 FM/AM 天线，请参阅“关于控制导线和电源导线的注意事项”。*

❹ **至选购的功率放大器的 AMP REMOTE IN**
此连接仅适用于功率放大器。连接其它系统可能损坏本机。

❺ **至 +12 V 电源端子，该端子在点火开关附件位置通电**

注
- *如果没有附件位置，则连接至 +12 V 电源（蓄电池）端子，该端子随时处于通电状态。*
  确保首先将黑色接地导线连接至汽车金属表面。
- *若汽车的后／侧玻璃内有内置 FM/AM 天线，请参阅“关于控制导线和电源导线的注意事项”。*

❻ **至 +12 V 电源端子，该端子随时处于通电状态**
确保首先将黑色接地导线连接至汽车金属表面。

关于控制导线和电源导线的注意事项
- *接通调谐器电源时，电动天线的控制导线（蓝色）使能提供 +12 V 直流电。*
- *当汽车的后／侧玻璃窗上有内置 FM/AM 天线时，请将电动天线控制线（蓝色）或辅助电源输入电线（红色）连接至现有天线升压器上的电源端子上。详细说明，请与您的经销商联系。*
- *本机不能使用不具备继电器盒的电动天线。*

保持记忆的线路连接法
当连接了黄色的电源输入电线时，即使点火开关关闭，电源仍将对记忆电路供电。

关于扬声器连接的注意事项
- *连接扬声器之前，请关闭本机电源。*
- *请使用阻抗为 4–8 欧姆且具有足够功率处理能力的扬声器，以免损坏。*
- *勿将扬声器端子连接到汽车底盘上，或将右扬声器的端子与左扬声器的端子连接。*
- *勿将本机的地线连接到扬声器的负极（–）端子上。*
- *扬声器不可并联连接。*
- *请仅连接无源扬声器。将有源扬声器（具有内置放大器）连接到扬声器端子可能会损坏本机。*
- *若本机使用左、右扬声器的共用负极（–）电线，为了避免故障，切勿使用安装在汽车内的内置扬声器电线。*
- *请勿将本机扬声器电线相互连接。*

连接的注意事项
如果未正确连接扬声器和放大器，则显示屏上会出现“FAILURE”。这时，请确保扬声器和放大器连接正确。

مخطط التوصيل (3)

❶ **الى سطح نقطة معدنية في السيارة**
قم أولاً بتوصيل سلك التأريض الاسود ثم قم بتوصيل اسلاك دخل التيار الاصفر والاحمر.

❷ **الى سلك مفتاح فرامل الإيقاف الدائم**
تأكد من توصيل سلك الإيقاف الدائم (أخضر فاتح) بسلك مفتاح فرامل الإيقاف الدائم. موضع تركيب سلك مفتاح فرامل الإيقاف الدائم يعتمد على نوع سيارتك. لمزيد من التفاصيل، راجع قسم توصيل سلك الإيقاف الدائم على الجهة الخلفية وقم باستشارة موزع سيارتك أو أقرب وكيل لمنتجات سوني Sony.

❸ **الى سلك التحكم في الهوائي الآلي او سلك امداد الطاقة لمضخم معزز الهوائي**

ملاحظات
- *ليس من الضروري توصيل هذا السلك اذا لم يتوفر هوائي آلي او معزز هوائي، او بهوائي تلسكوبي يعمل يدويا.*
- *عندما تكون سيارتك تتضمن هوائي FM/AM داخلي في الزجاج الجانبي الخلفي، راجع قسم «ملاحظات حول اسلاك التحكم وامداد التيار».*

❹ **للتوصيل بـ AMP REMOTE IN لمضخم القدرة الإختياري**
هذه التوصيلة مخصصة فقط لاجهزة تضخيم الصوت. توصيل أي جهاز آخر قد يضر الوحدة.

❺ **الى طرف التيار +١٢ فولت الذي يسري فيه التيار عندما يكون مفتاح تشغيل المحرك في وضع الكماليات**

ملاحظات
- *عند عدم وجود وضع الكماليات، قم بالتوصيل الى طرف توصيل تيار (البطارية) +١٢ فولت موجب والذي يولد طاقة في جميع الاوقات. تأكد اولاً من توصيل السلك الاسود للارضي بسطح معدني للسيارة.*
- *عندما تكون سيارتك تتضمن هوائي FM/AM داخلي في الزجاج الجانبي الخلفي، راجع قسم «ملاحظات حول اسلاك التحكم وامداد التيار».*

❻ **الى طرف توصيل تيار +١٢ فولت موجب يسري فيه التيار باستمرار**
تأكد اولاً من توصيل السلك الاسود للارضي بسطح معدني للسيارة.

ملاحظات حول اسلاك التحكم وامداد التيار
- *سلك التحكم في الهوائي الآلي (الازرق) يقوم بإمداد تيار مباشر +١٢ فولت عندما تقوم بتشغيل المؤلف.*
- *عندما تكون سيارتك تتضمن هوائي FM/AM داخلي في الزجاج الجانبي الخلفي، من الضروري توصيل سلك التحكم بالهوائي الآلي (الازرق) او سلك دخل قدرة الكماليات (احمر) الى طرف توصيل القدرة لمعزز الهوائي الموجود اصلا. لمزيد من التفاصيل، قم باستشارة الوكيل لديك.*
- *لا يمكن استعمال هوائي آلي بدون صندوق ترحيل مع هذه الوحدة.*

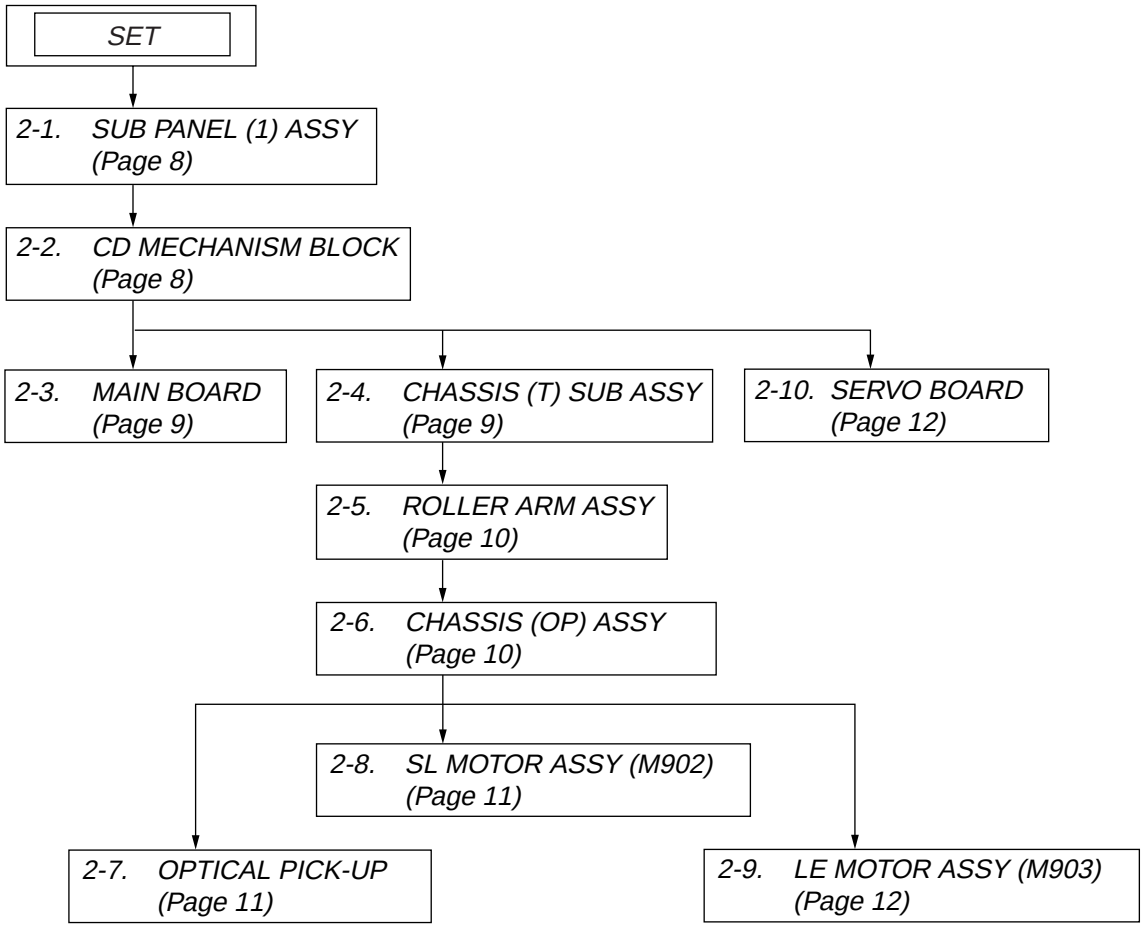
توصيلة حفظ الذاكرة
عند توصيل سلك دخل التيار الاصفر، يتم إمداد التيار بصورة مستمرة الى دائرة الذاكرة حتى اثناء إيقاف مفتاح تشغيل المحرك.

ملاحظات حول توصيل السماعات
- *قبل توصيل السماعات، اوقف تشغيل الوحدة.*
- *إستعمل سماعات بممانعة من ٤ الى ٨ أوم وسعة تحمل قدرة مناسبة. لتجنّب الاصابة بضرر.*
- *لا تقم بتوصيل أطراف توصيل نظام السماعات بهيكل السيارة، ولا تقم بتوصيل أطراف توصيل السماعة اليمنى بأطراف توصيل السماعة اليسرى.*
- *لا تقم بتوصيل سلك التأريض لهذه الوحدة الى الطرف السالب (–) لسماعة التكبير.*
- *لا تحمد الى توصيل السماعات بشكل متواز.*
- *قم بتوصيل سماعات التكبير الغير فعّالة. توصيل سماعات التكبير الفعّالة (باستعمال مضخم صوت داخلي) الى اطراف سماعات التكبير قد يلحق الوحدة بأضرار.*
- *لتجنّب الاعطال، لا تستعمل اسلاك سماعة التكبير الداخلية المركبة في سيارتك اذا كانت الوحدة تقاسم طرف سالب (–) عام للسماعات اليمنى واليسرى.*
- *لا تقم بتوصيل اسلاك سماعة تكبير الوحدة ببعضهما البعض.*

ملاحظة حول التوصيل
اذا لم يتم توصيل السماعة ومضخم الصوت بشكل صحيح، تظهر العبارة "FAILURE" على العارضة. في هذه الحالة، تأكد من توصيل السماعة ومضخم الصوت بشكل صحيح.

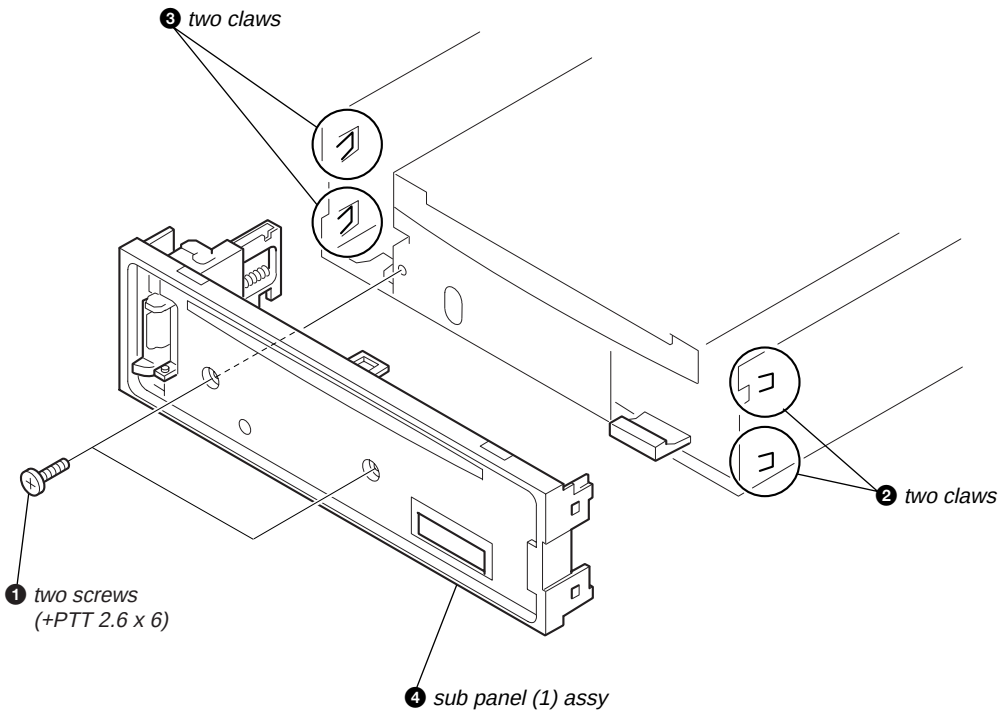
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

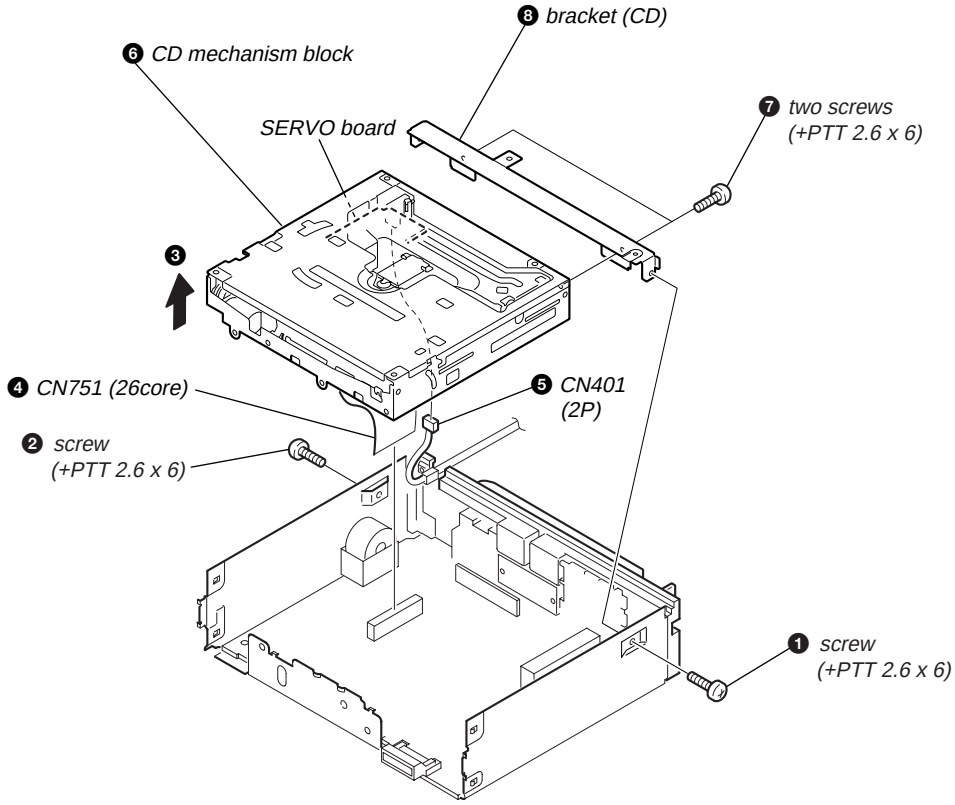

SET
2-1. SUB PANEL (1) ASSY (Page 8)
2-2. CD MECHANISM BLOCK (Page 8)
2-3. MAIN BOARD (Page 9)
2-4. CHASSIS (T) SUB ASSY (Page 9)
2-10. SERVO BOARD (Page 12)
2-5. ROLLER ARM ASSY (Page 10)
2-6. CHASSIS (OP) ASSY (Page 10)
2-8. SL MOTOR ASSY (M902) (Page 11)
2-7. OPTICAL PICK-UP (Page 11)
2-9. LE MOTOR ASSY (M903) (Page 12)

Note : Follow the disassembly procedure in the numerical order given.

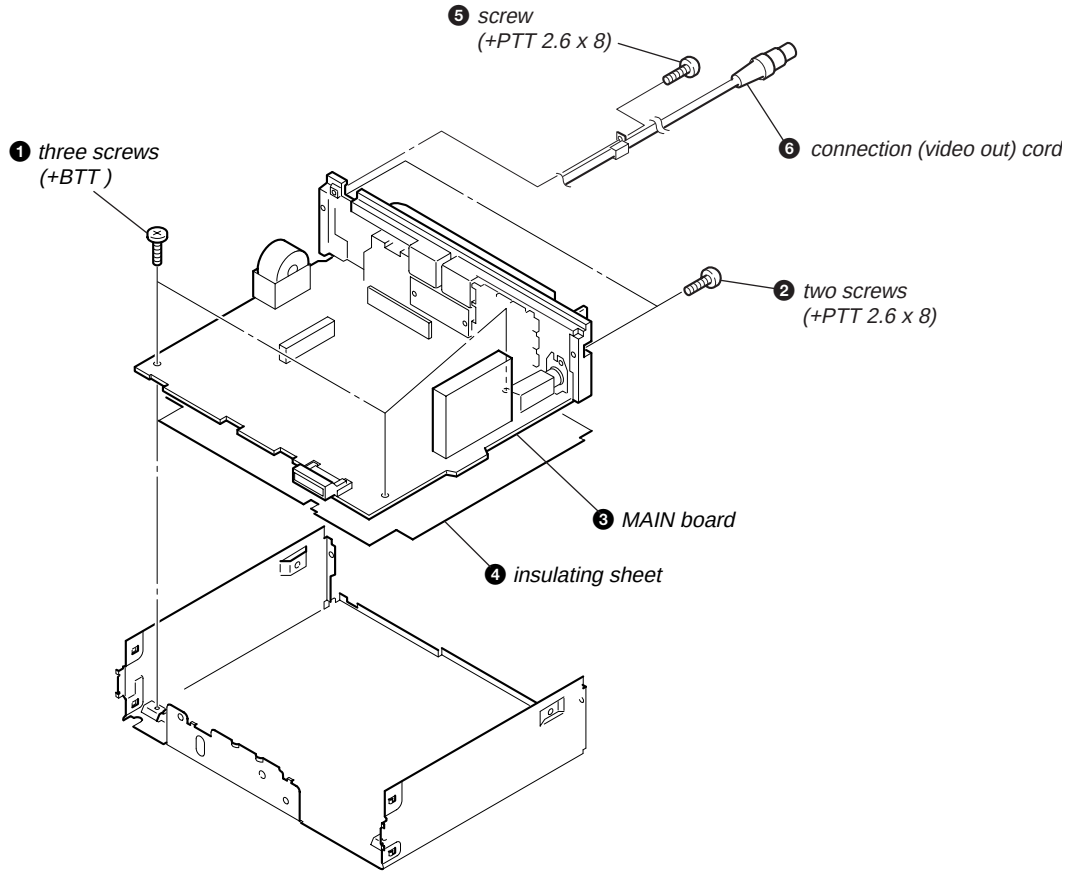
2-1. SUB PANEL (1) ASSY



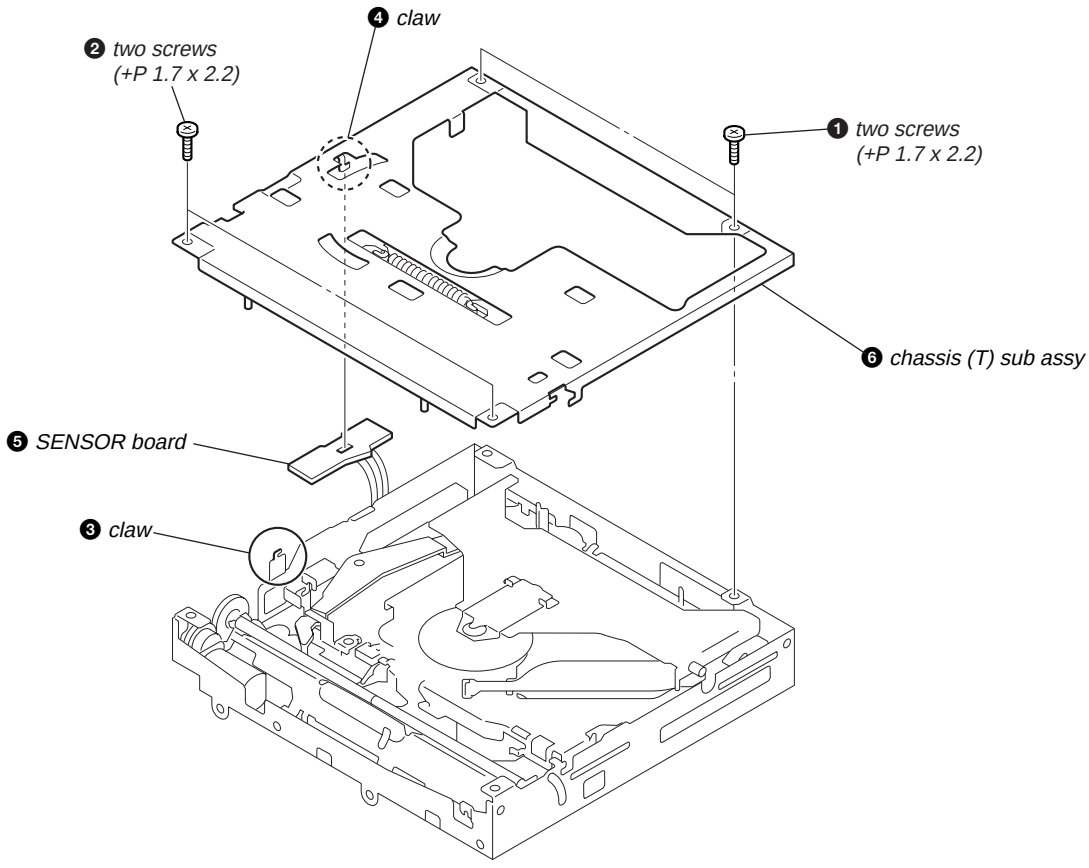
2-2. CD MECHANISM BLOCK



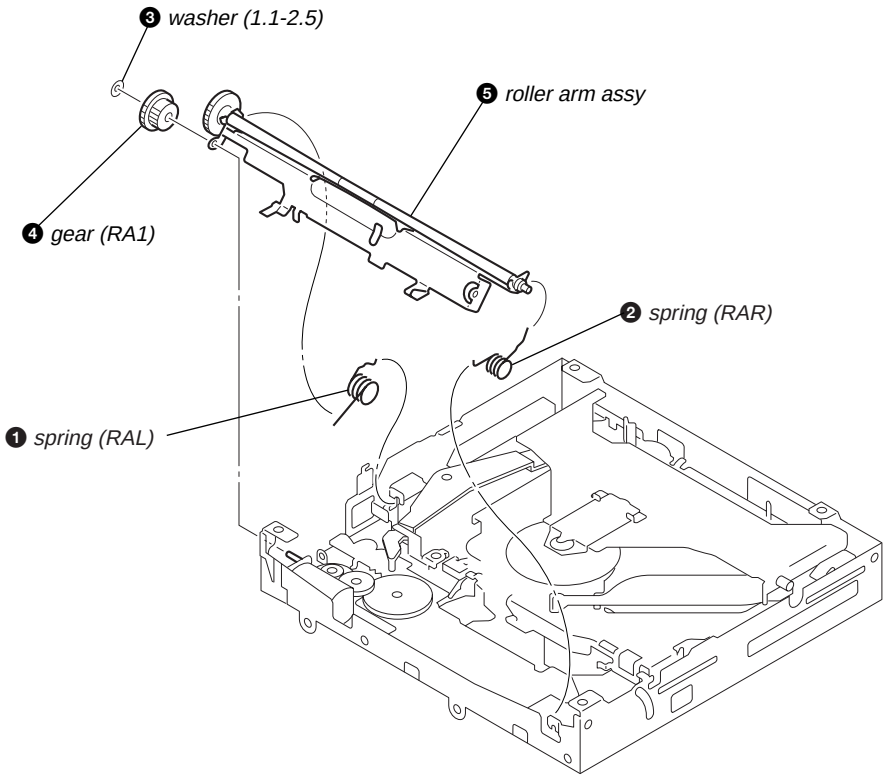
2-3. MAIN BOARD



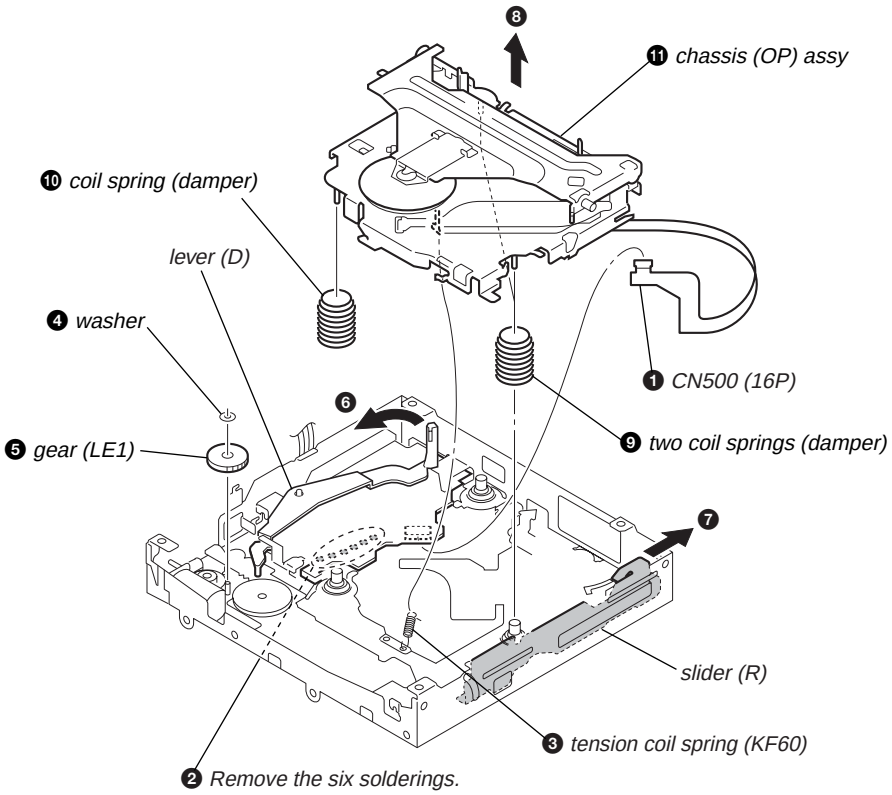
2-4. CHASSIS (T) SUB ASSY



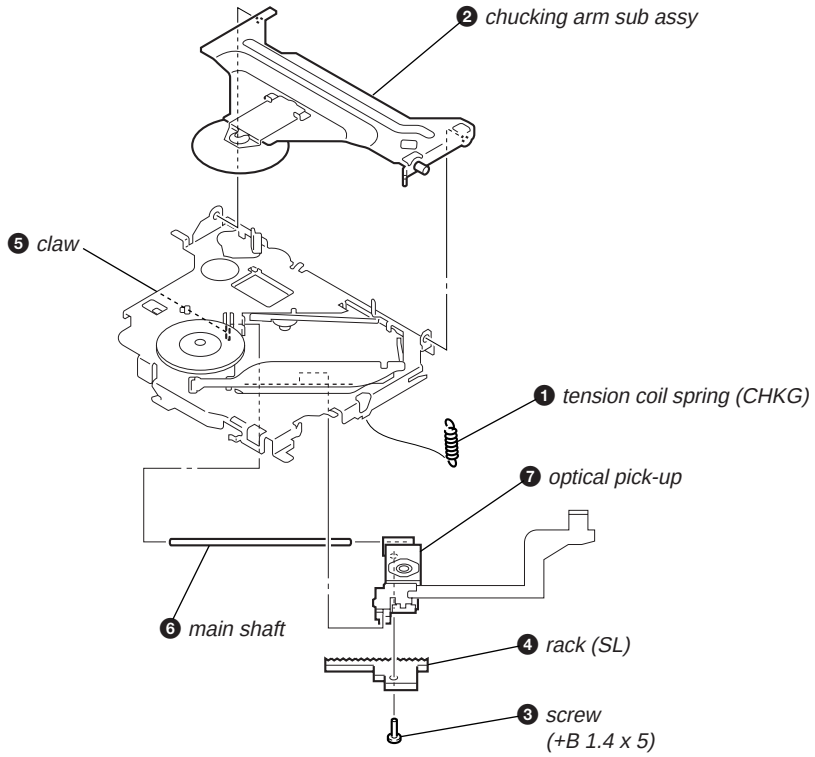
2-5. ROLLER ARM ASSY



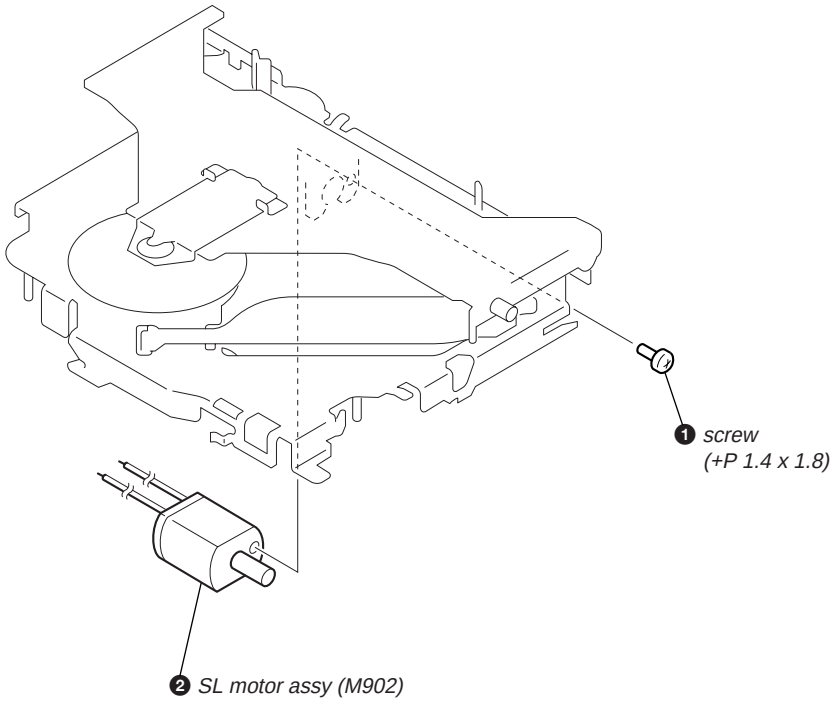
2-6. CHASSIS (OP) ASSY



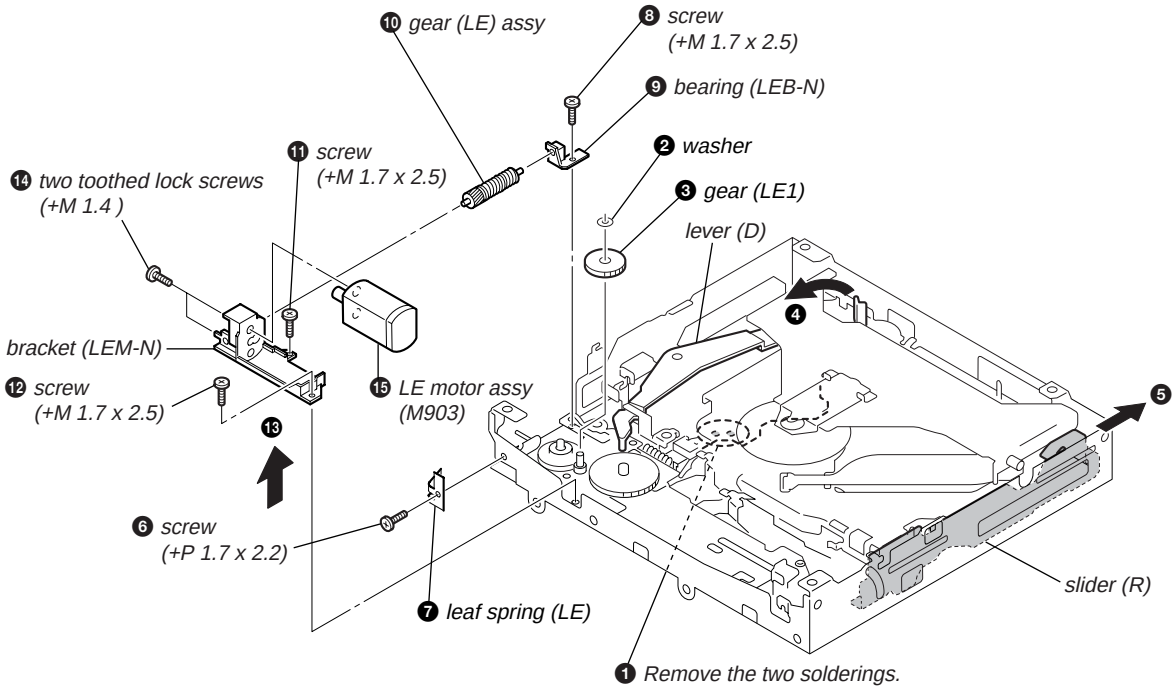
2-7. OPTICAL PICK-UP



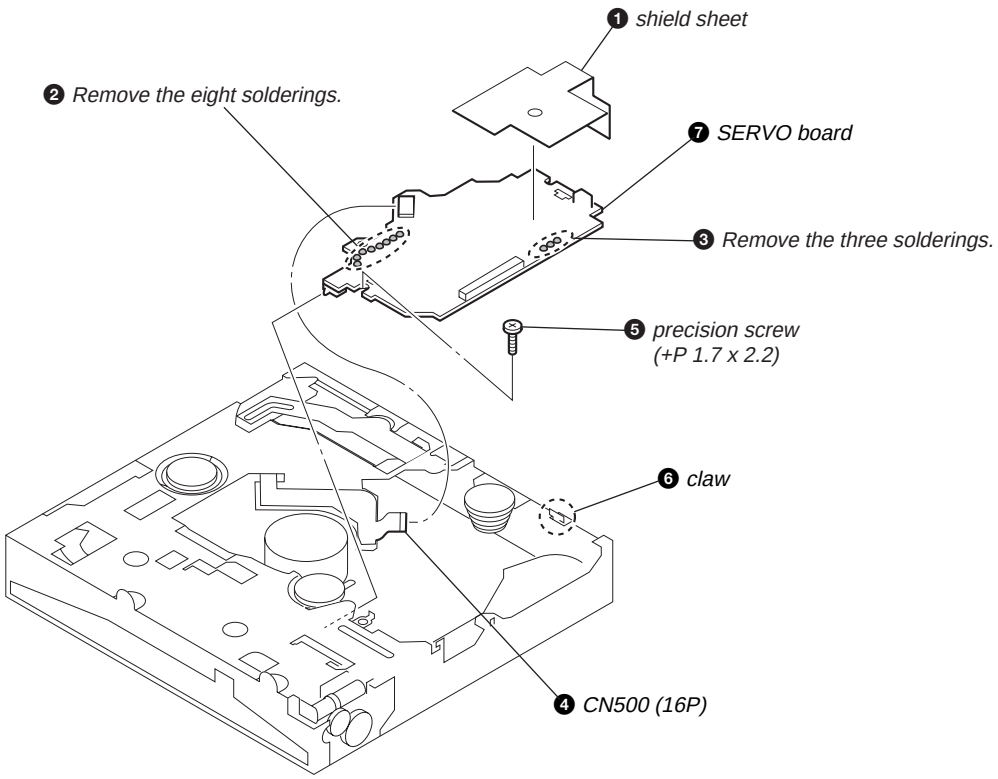
2-8. SL MOTOR ASSY (M902)



2-9. LE MOTOR ASSY (M903)

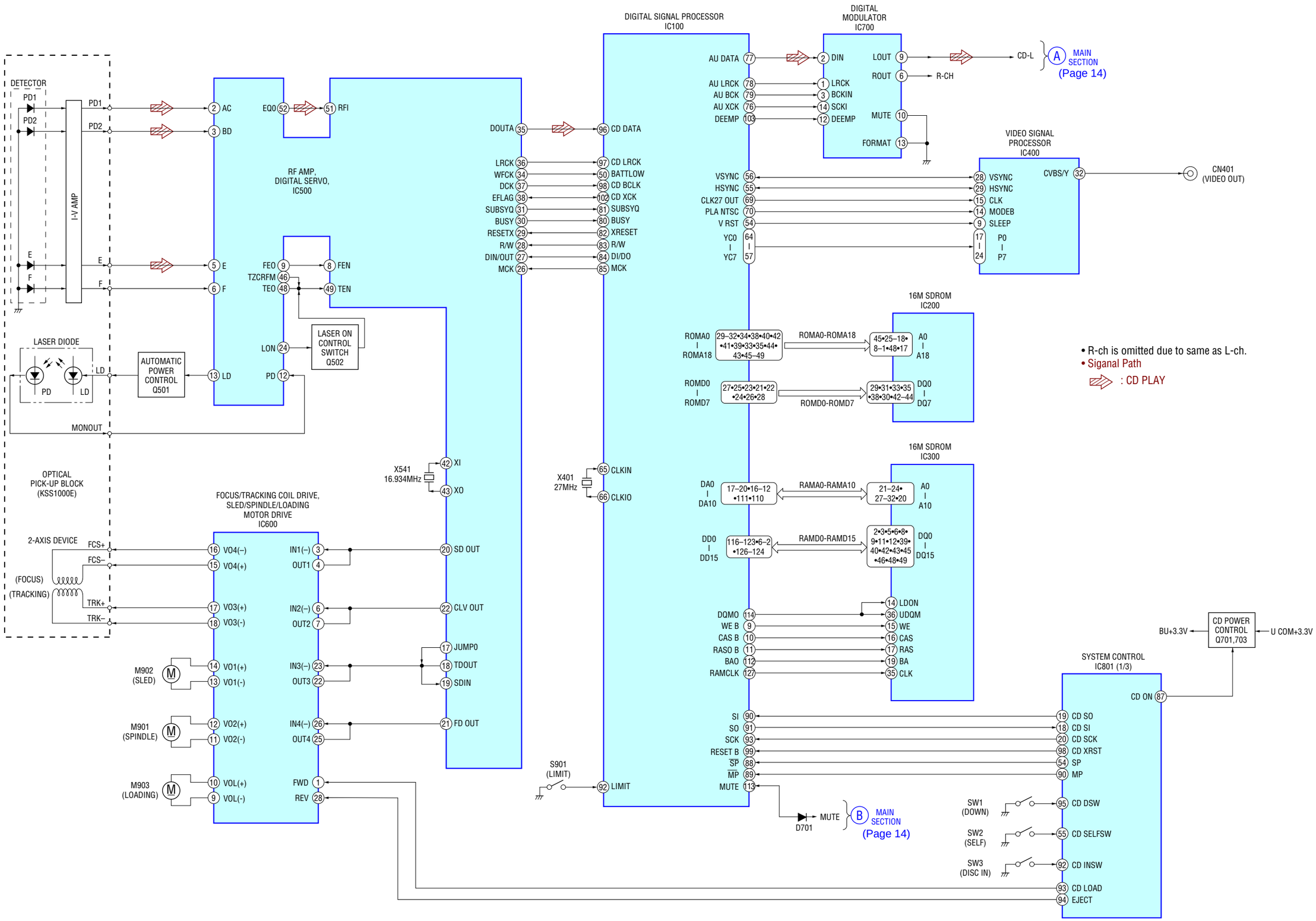


2-10. SERVO BOARD

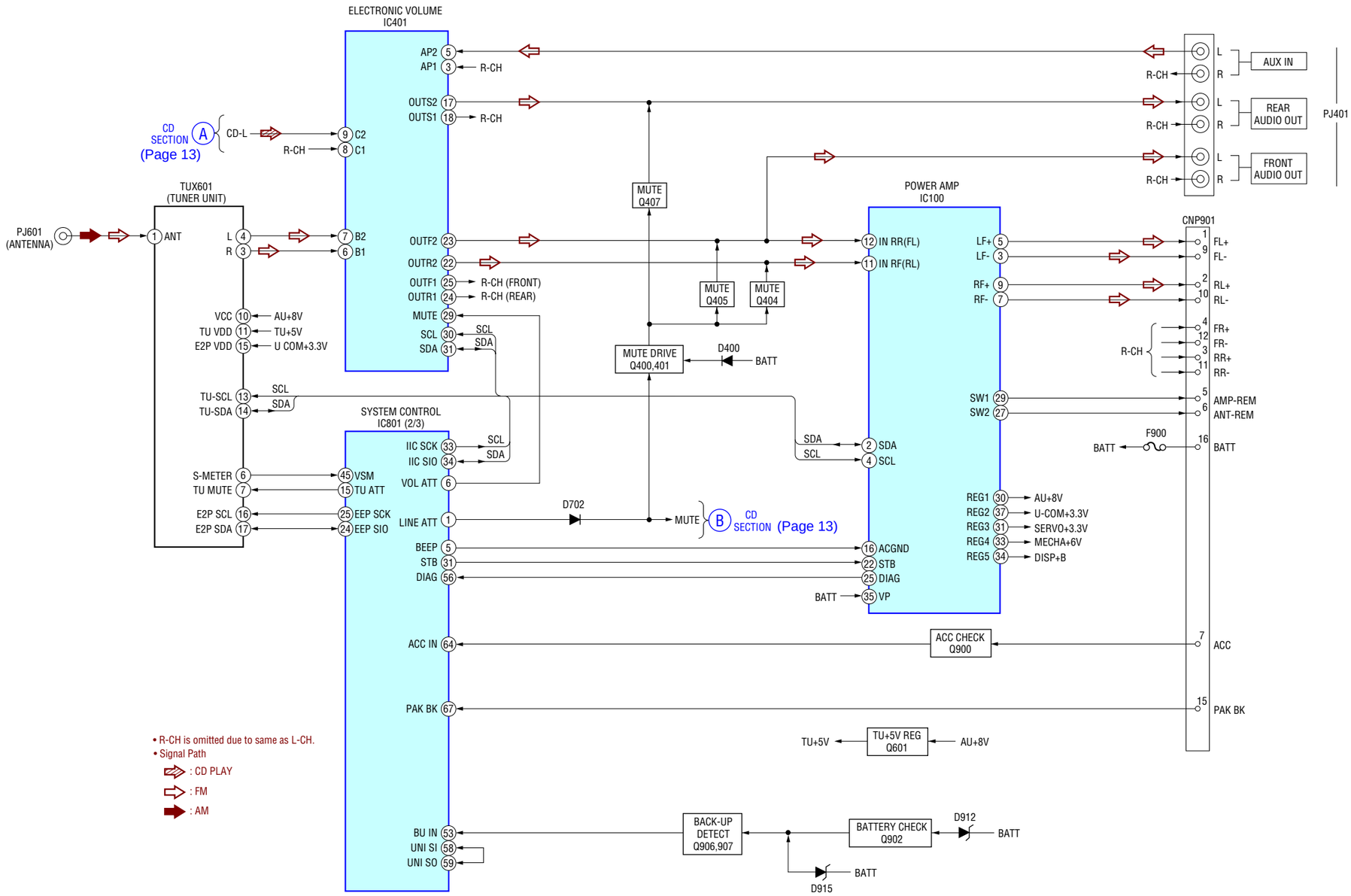

① shield sheet
② Remove the eight solderings.
⑦ SERVO board
③ Remove the three solderings.
⑤ precision screw (+P 1.7 x 2.2)
⑥ claw
④ CN500 (16P)

SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM — CD SECTION —

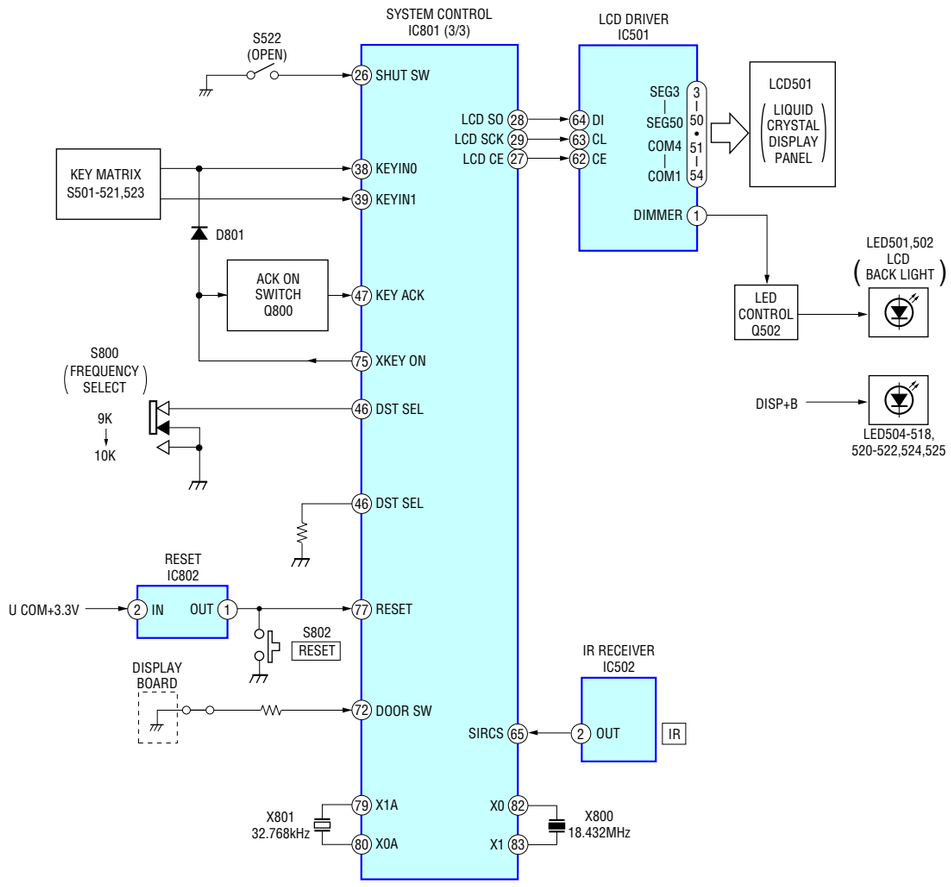


3-2. BLOCK DIAGRAM — MAIN SECTION —

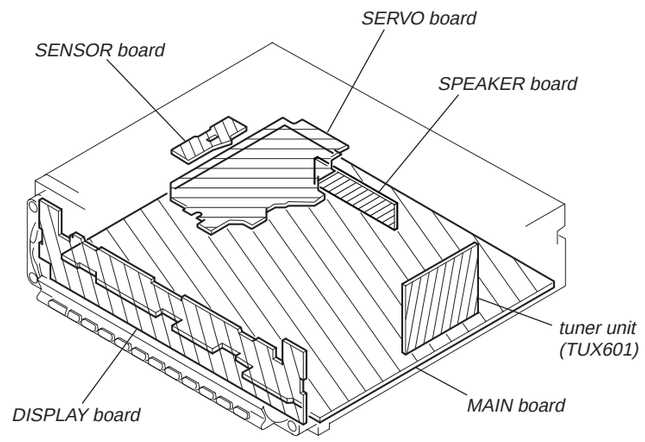


- R-CH is omitted due to same as L-CH.
- Signal Path
  - : CD PLAY
  - : FM
  - : AM

3-3. BLOCK DIAGRAM — DISPLAY SECTION —



3-4. CIRCUIT BOARDS LOCATION



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- CD mechanism section (1/2, 2/2)
  no mark : CD PLAY
- Main (1/3), (2/3), (3/3) and Display sections
  no mark : FM
  ( ) : AM
  < > : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY
  ⇨ : FM
  ➡ : AM

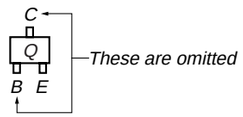
For printed wiring boards.

Note:

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▭ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.



These are omitted

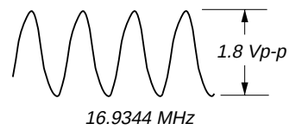
These are omitted

These are omitted

• WAVEFORMS

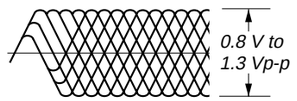
— Servo Board — (MODE: CD PLAY)

① IC500 ㊸ (XO)



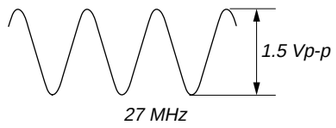
0.2 V/DIV, 0.2 µsec/DIV

② IC500 ㊷ (EQO)



0.5 V/DIV, 0.5 µsec/DIV

③ IC100 ㊺ (CLKIN)



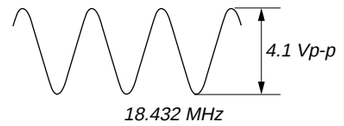
0.2 V/DIV, 0.2 µsec/DIV

— Main Board —

① IC801 ㊽ (XOA)

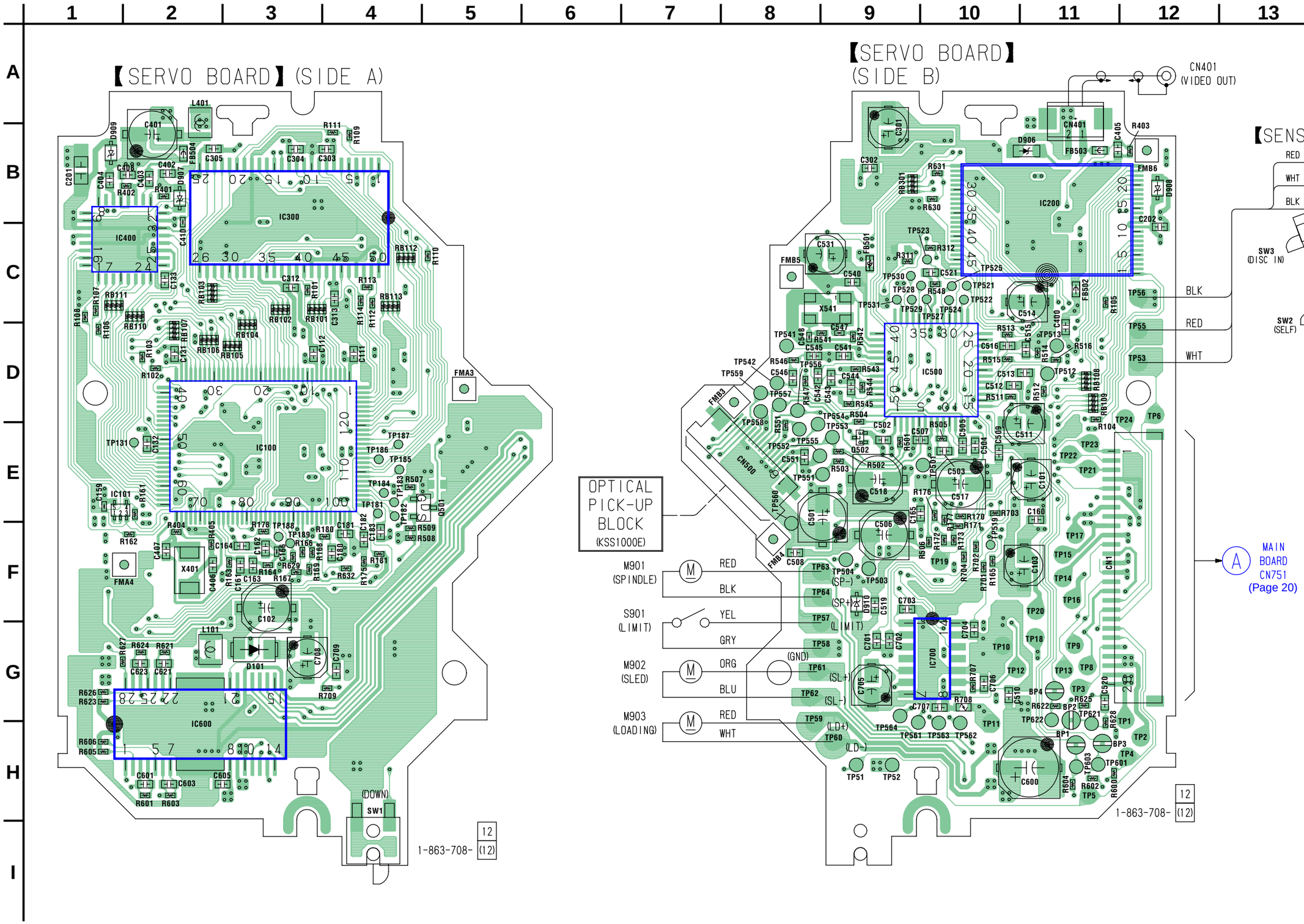
0.2 V/DIV, 20 µsec/DIV

② IC801 ㊽ (X0)



0.5 V/DIV, 0.1 µsec/DIV

3-5. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 15 for Circuit Boards Location. : Uses unleaded solder.



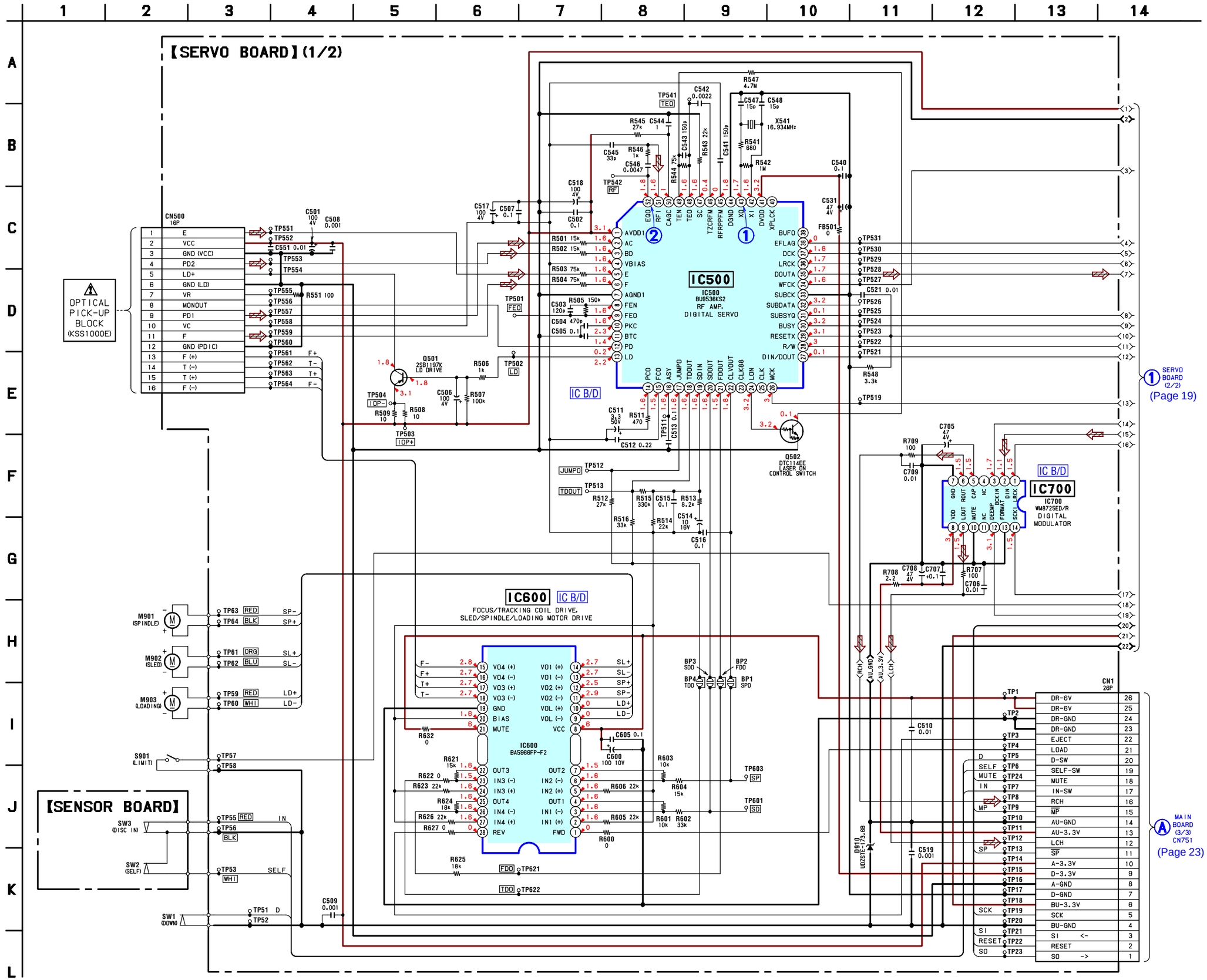
- **Semiconductor Location**

Ref. No.	Location
D101	G-3
D906	B-11
D907	B-2
D909	B-1
D910	F-9
IC100	E-3
IC200	B-11
IC300	B-3
IC400	C-2
IC500	D-10
IC600	H-2
IC700	G-10
Q501	E-5
Q502	E-9

• Refer to page 16 for Waveforms.

3-6. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) —

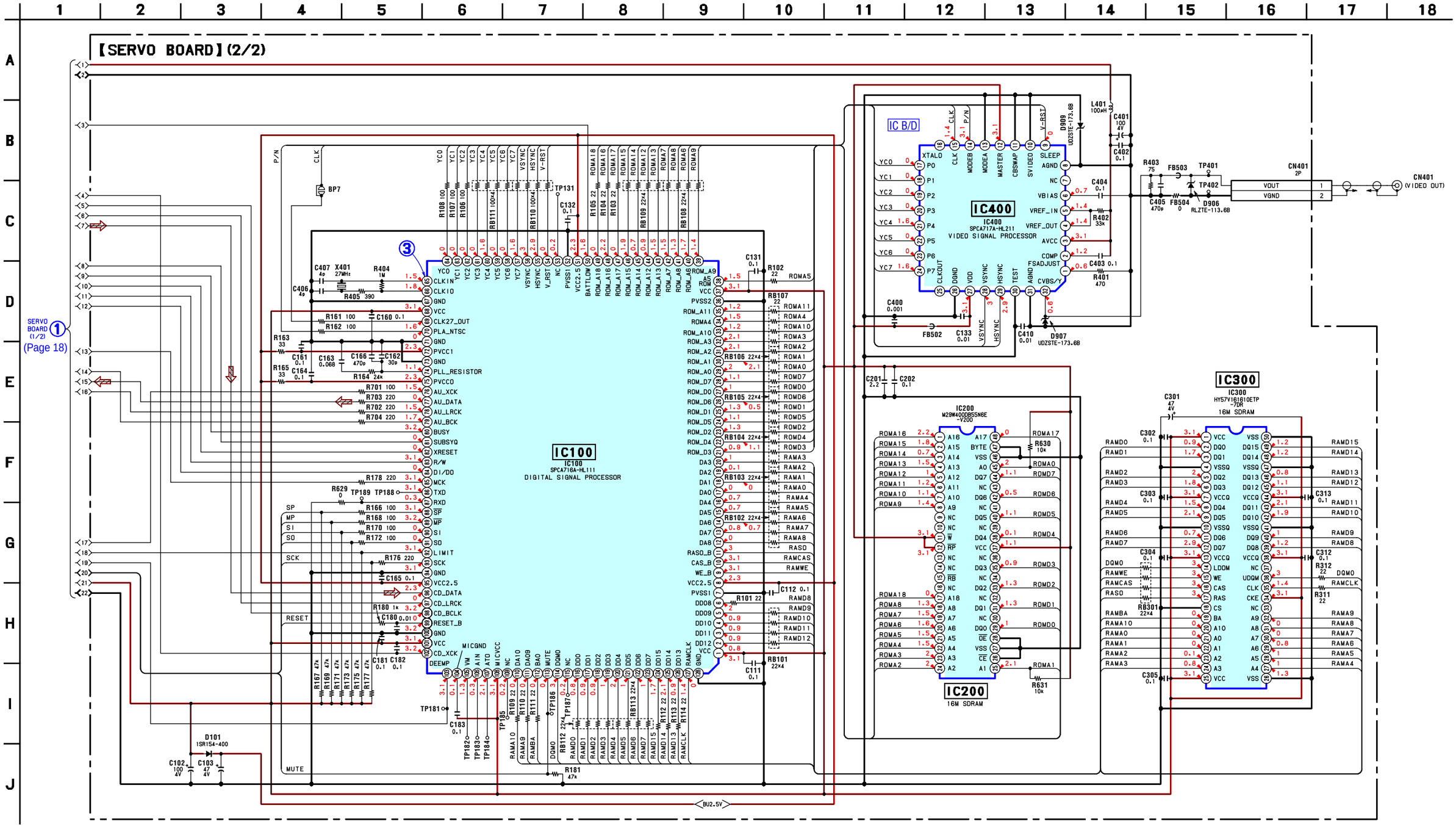
• Refer to page 26 for IC Block Diagrams. • Refer to page 27 for IC Pin Description of IC500.



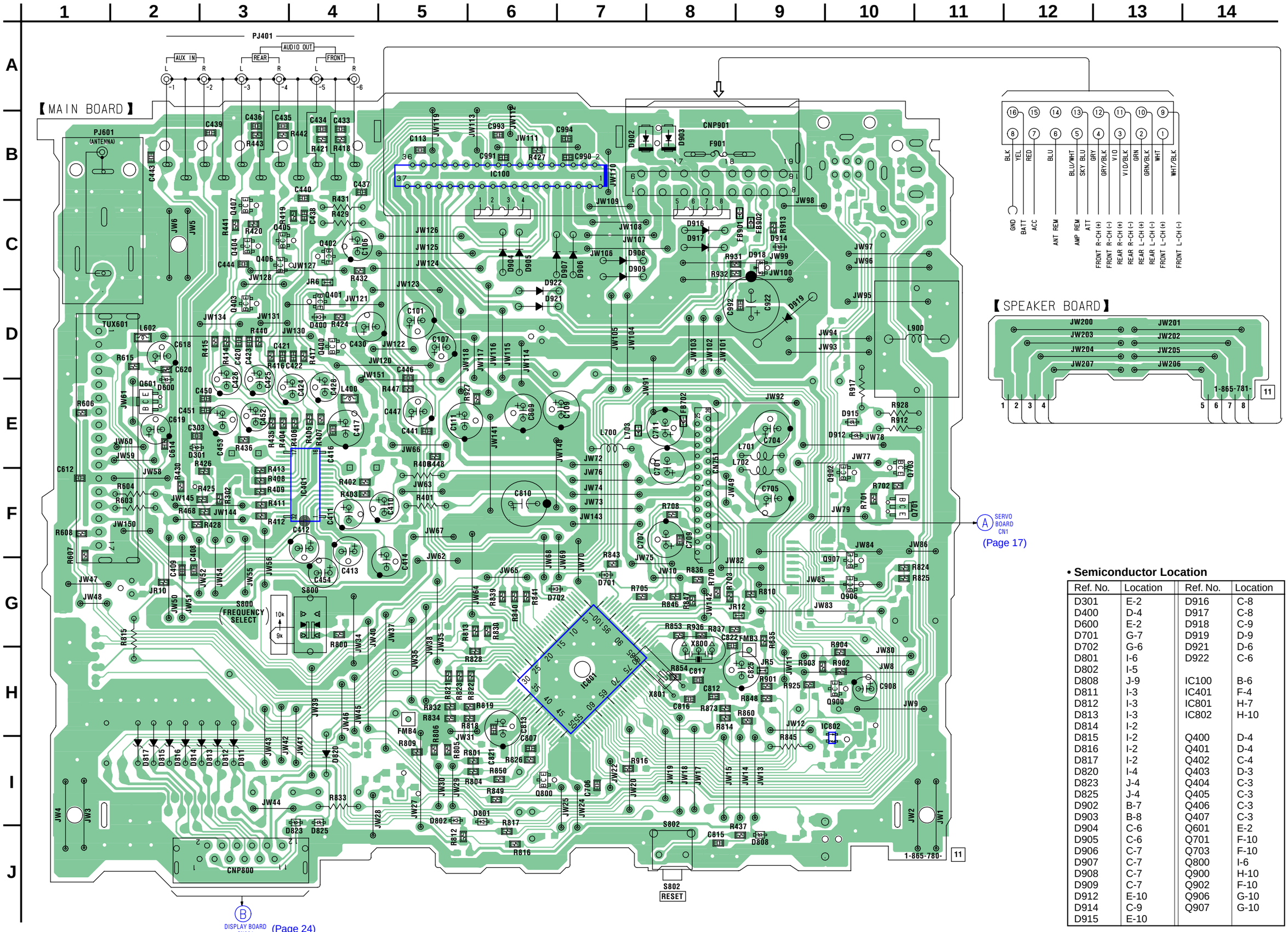
• Refer to page 16 for Waveform.

3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) —

• Refer to page 26 for IC Block Diagram. • Refer to page 29 for IC Pin Description of IC400.



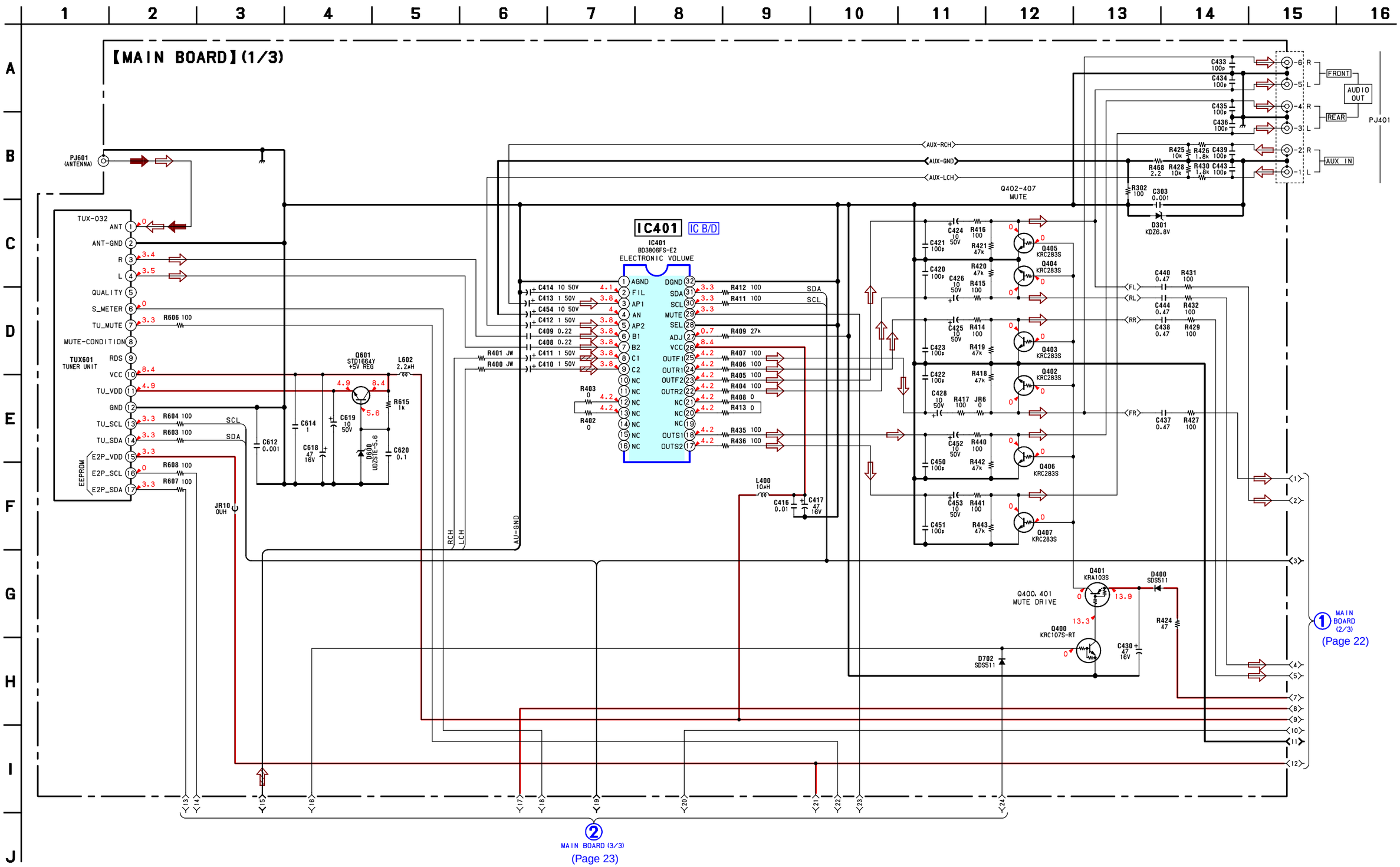
3-8. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 15 for Circuit Boards Location. : Uses unleaded solder.



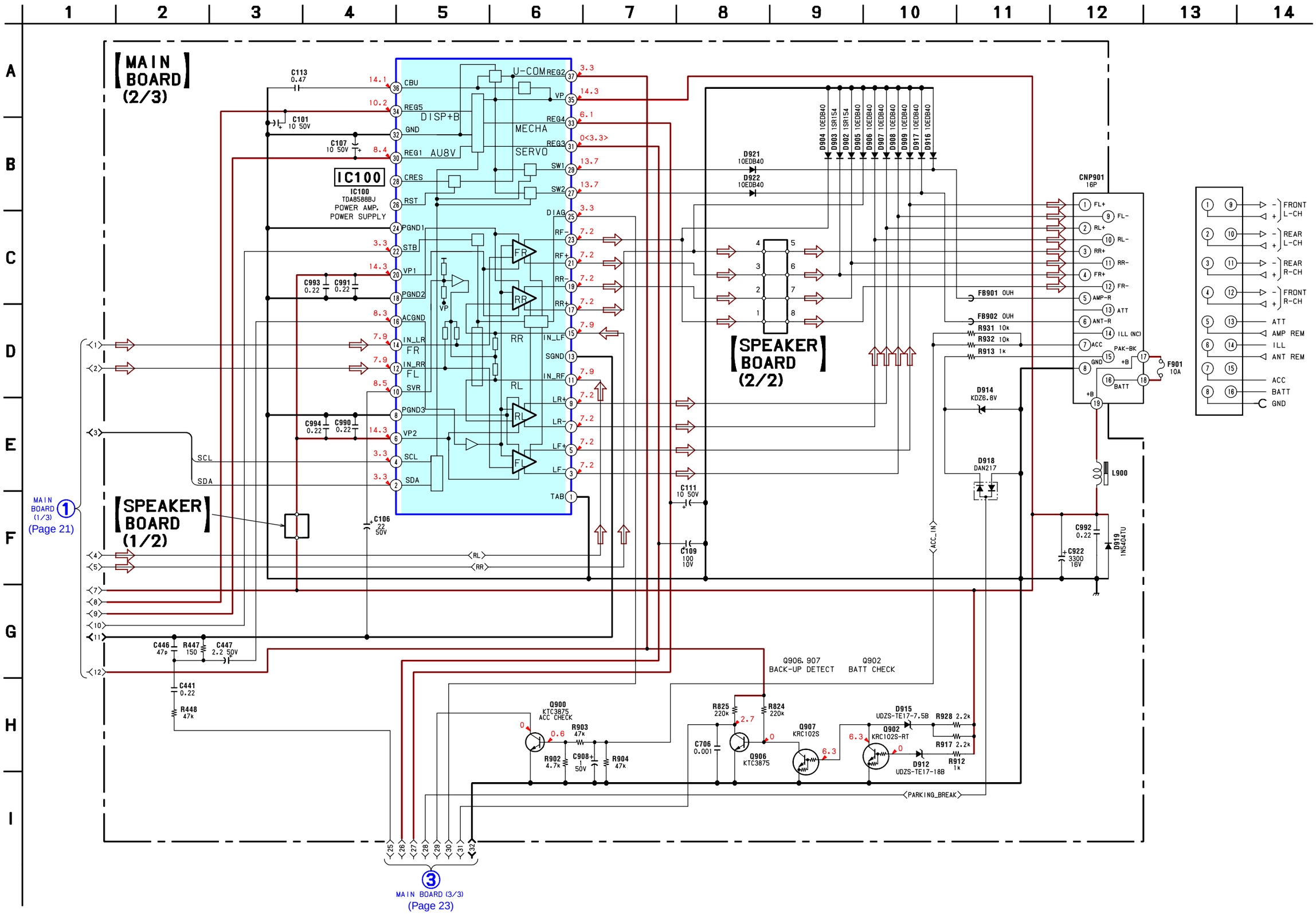
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D301	E-2	D916	C-8
D400	D-4	D917	C-8
D600	E-2	D918	C-9
D701	G-7	D919	D-9
D702	G-6	D921	D-6
D801	I-6	D922	C-6
D802	I-5		
D808	J-9	IC100	B-6
D811	I-3	IC401	F-4
D812	I-3	IC801	H-7
D813	I-3	IC802	H-10
D814	I-2		
D815	I-2	Q400	D-4
D816	I-2	Q401	D-4
D817	I-2	Q402	C-4
D820	I-4	Q403	D-3
D823	J-4	Q404	C-3
D825	J-4	Q405	C-3
D902	B-7	Q406	C-3
D903	B-8	Q407	C-3
D904	C-6	Q601	E-2
D905	C-6	Q701	F-10
D906	C-7	Q703	F-10
D907	C-7	Q800	I-6
D908	C-7	Q900	H-10
D909	C-7	Q902	F-10
D912	E-10	Q906	G-10
D914	C-9	Q907	G-10
D915	E-10		

3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 26 for IC Block Diagram.



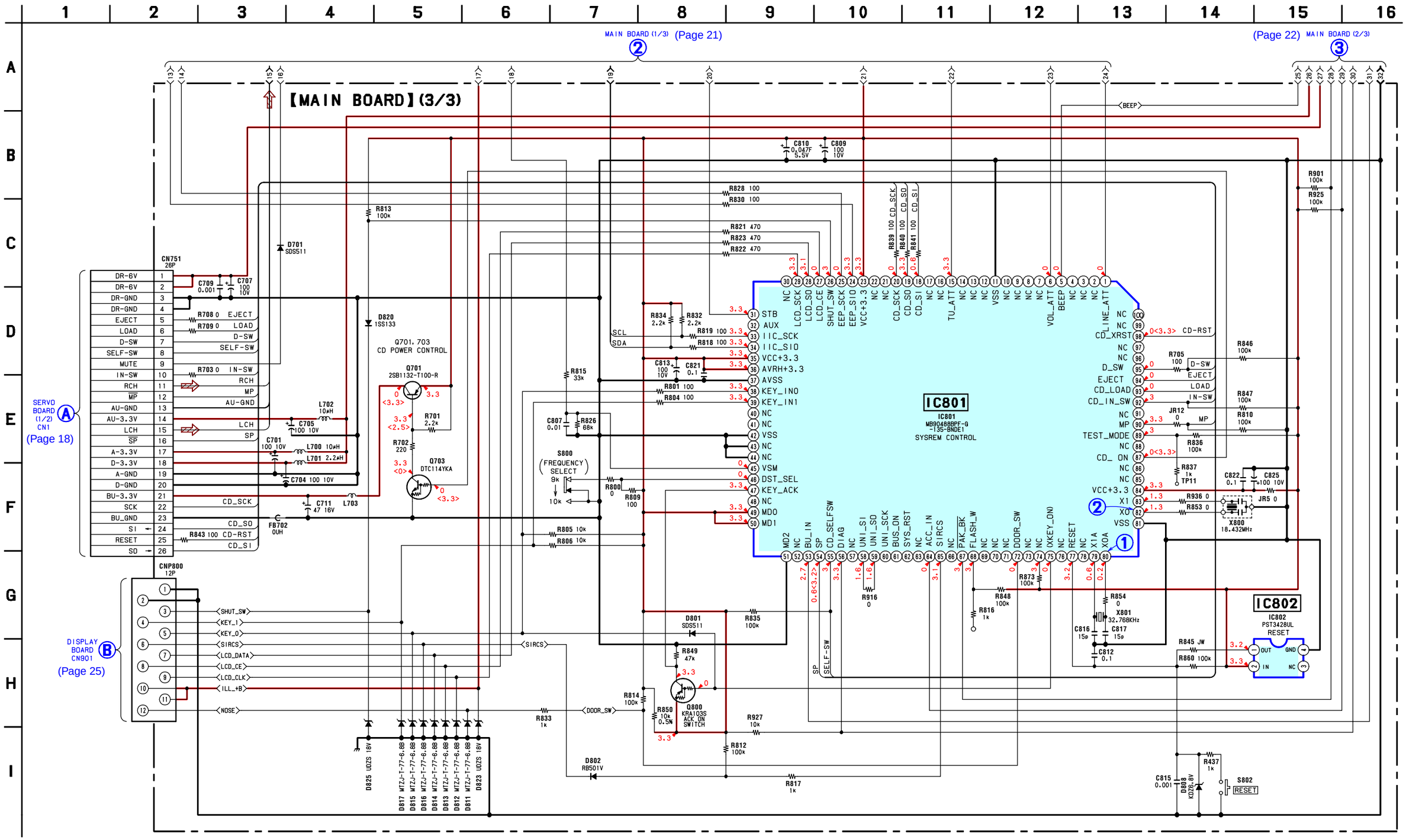
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



• Refer to page 16 for Waveforms.

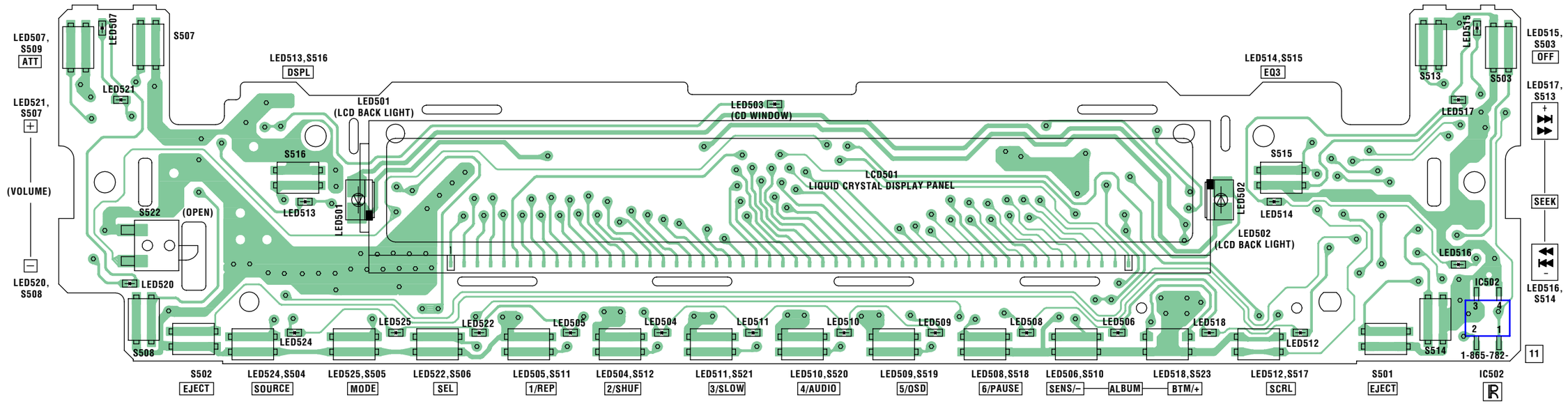
3-11. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

• Refer to page 30 for IC Pin Description of IC801.



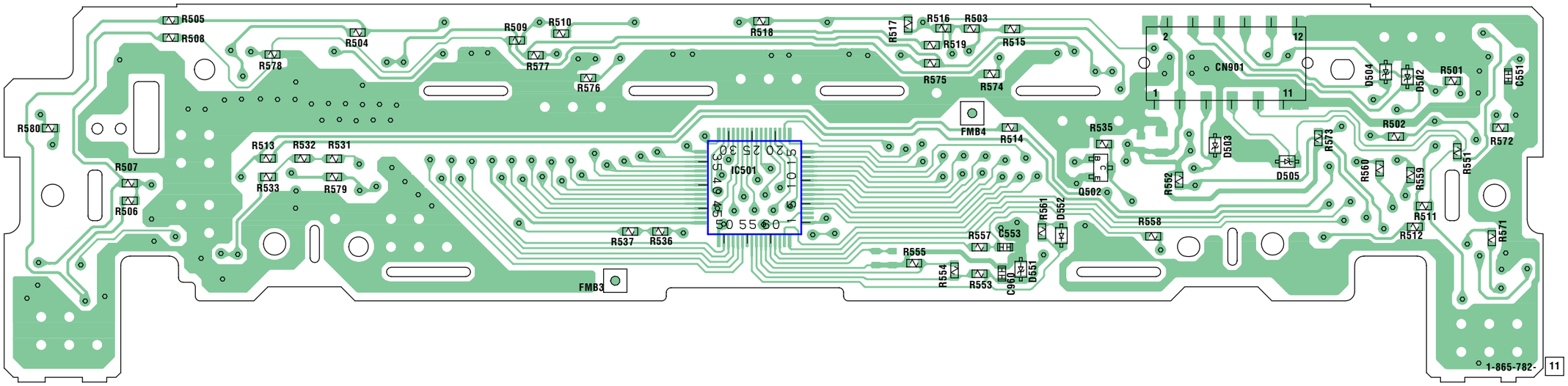
3-12. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 15 for Circuit Boards Location. : Uses unleaded solder.

【DISPLAY BOARD】(SIDE A)



MAIN BOARD CNP800 (Page 20)

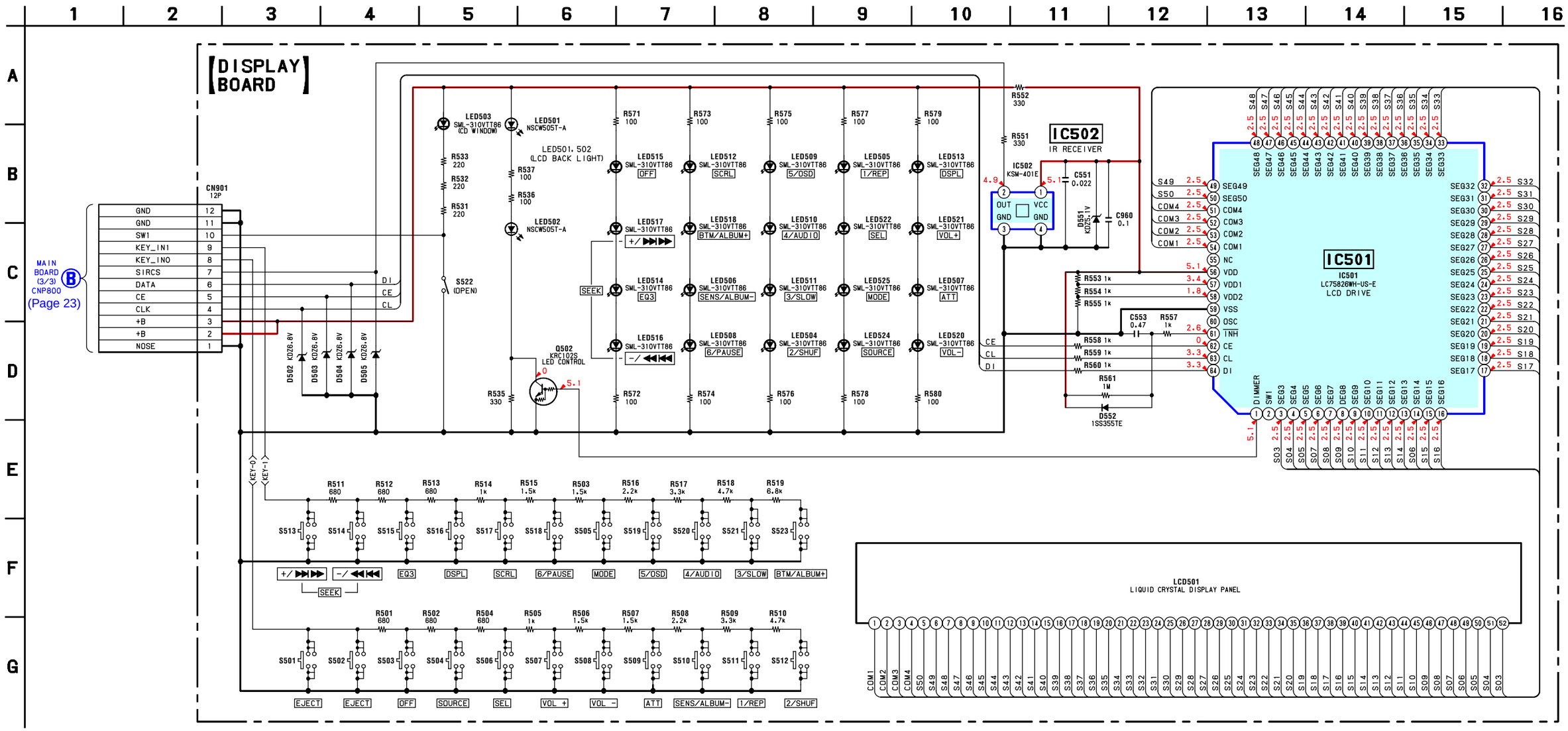
【DISPLAY BOARD】(SIDE B)



• **Semiconductor Location**

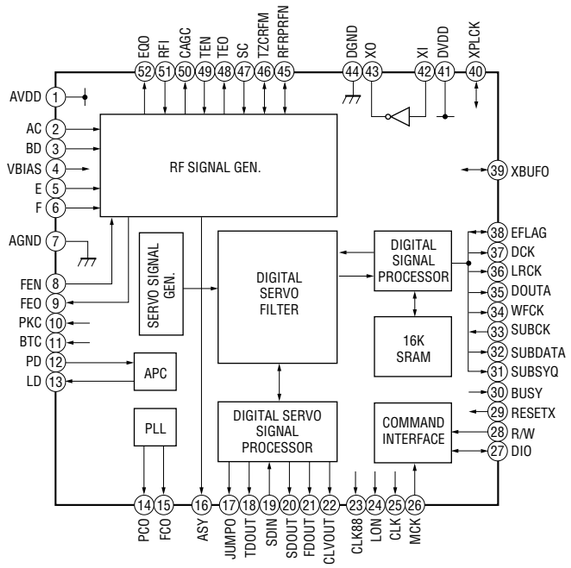
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D502	F-13	LED501	C-4	LED510	D-8	LED520	D-2
D503	G-11	LED502	C-12	LED511	D-7	LED521	B-2
D504	F-13	LED503	B-7	LED512	D-12	LED522	D-5
D505	G-12	LED504	D-6	LED513	C-3	LED524	D-3
D551	H-10	LED505	D-6	LED514	C-12	LED525	D-4
D552	G-10	LED506	D-11	LED515	A-14		
		LED507	A-2	LED516	C-14	Q502	G-10
IC501	G-7	LED508	D-10	LED517	B-13		
IC502	D-14	LED509	D-9	LED518	D-11		

3-13. SCHEMATIC DIAGRAM — DISPLAY SECTION —

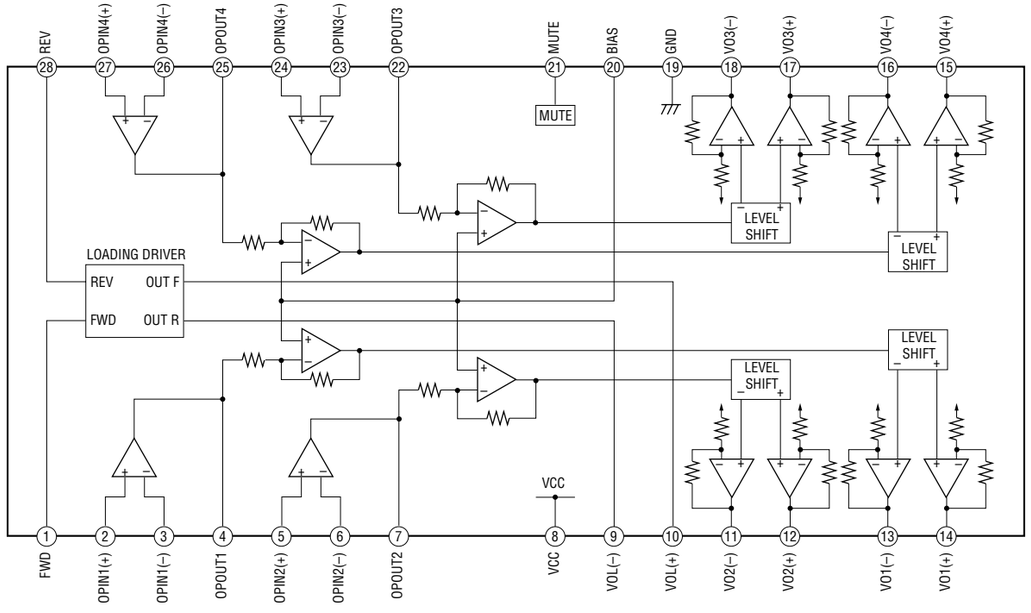


• IC BLOCK DIAGRAMS

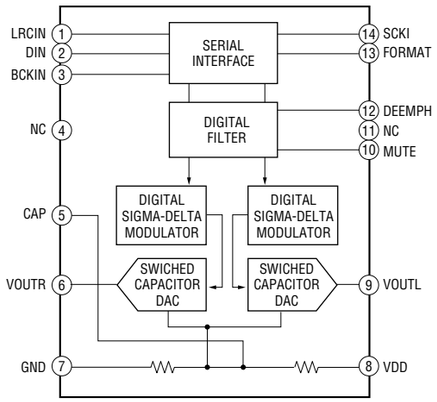
IC500 BU9536KS2 (SERVO Board (1/2))


EQO RFI CAGC TEN TEO SC TZCRFM RFRPRFN DGND XO XI DVDD XPLCK
AVDD AC BD VBIAS E F AGND FEN FEO PKC BTC PD LD
RF SIGNAL GEN.
SERVO SIGNAL GEN.
DIGITAL SERVO FILTER
DIGITAL SIGNAL PROCESSOR
16K SRAM
APC
PLL
DIGITAL SERVO SIGNAL PROCESSOR
COMMAND INTERFACE
XBUFO EFLAG DCK LRCK DOUTA WFCK SUBCK SUBDATA SUBSYQ BUSY RESETX R/W DIO
PCO FCO ASY JUMPO TDOUT SDIN SDOUT FDOUT CLVOUT CLK88 LON CLK MCK

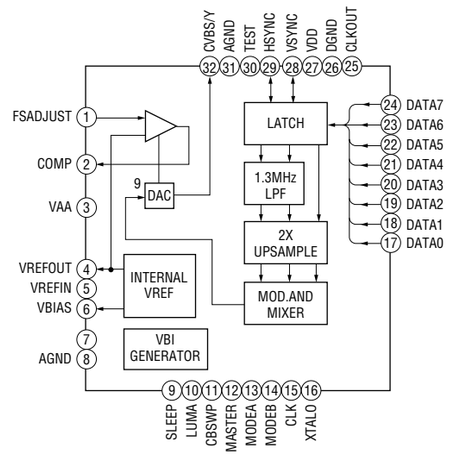
IC600 BA5966FP-FE2 (SERVO Board (1/2))


REV OPIN4(+) OPIN4(–) OPOUT4 OPIN3(+) OPIN3(–) OPOUT3 MUTE BIAS GND VO3(–) VO3(+) VO4(–) VO4(+)
LOADING DRIVER
REV OUT F
FWD OUT R
LEVEL SHIFT
VCC
FWD OPIN1(+) OPIN1(–) OPOUT1 OPIN2(+) OPIN2(–) OPOUT2 VCC VOL(–) VOL(+) VO2(–) VO2(+) VO1(–) VO1(+)

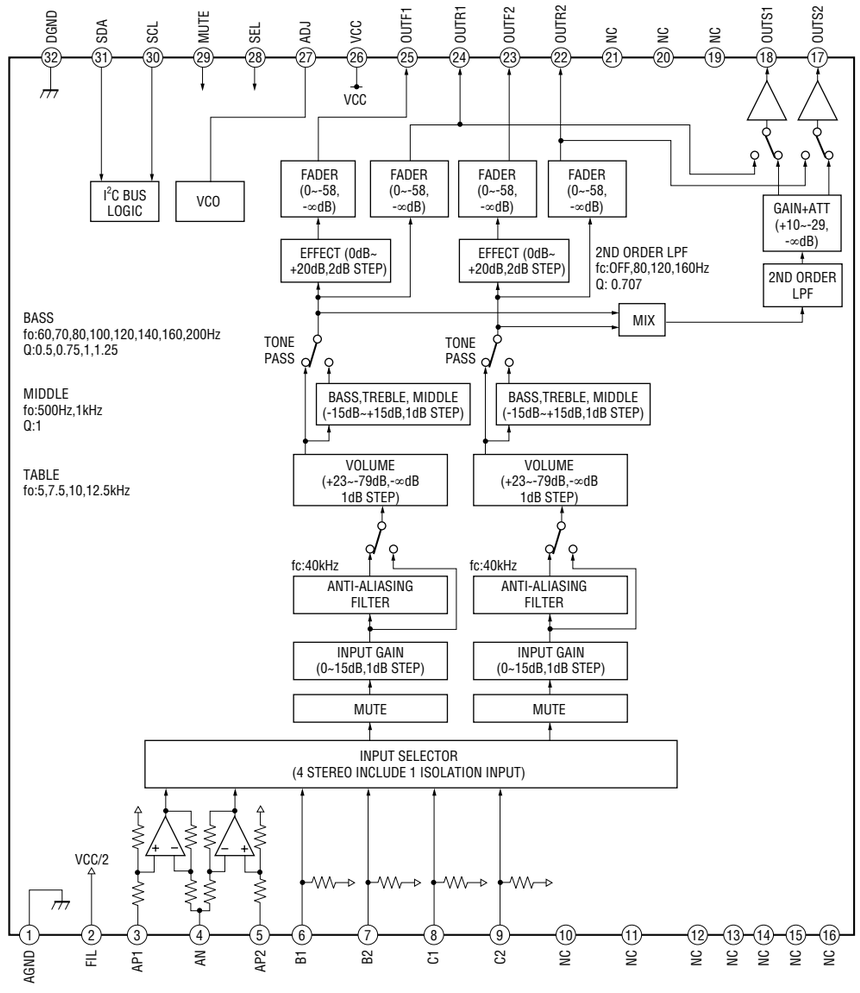
IC700 WM8726GED/R (SERVO Board (1/2))


LRCIN DIN BCKIN NC CAP VOUTR GND
SERIAL INTERFACE
DIGITAL FILTER
DIGITAL SIGMA-DELTA MODULATOR
SWICHED CAPACITOR DAC
SCKI FORMAT DEEMPH NC MUTE VOUTL VDD

IC400 SPCA717A-HL211 (SERVO Board (2/2))



IC401 BD3806FS-E2 (MAIN Board (1/3))


DGND SDA SCL MUTE SEL ADJ VCC OUTF1 OUTR1 OUTF2 OUTR2 NC NC NC OUTS1 OUTS2
VCC
I²C BUS LOGIC
VCO
FADER (0~-58, -∞dB)
EFFECT (0dB~ +20dB,2dB STEP)
2ND ORDER LPF fc:OFF,80,120,160Hz Q: 0.707
GAIN+ATT (+10~-29, -∞dB)
2ND ORDER LPF
MIX
TONE PASS
BASS fo:60,70,80,100,120,140,160,200Hz Q:0.5,0.75,1,1.25
MIDDLE fo:500Hz,1kHz Q:1
TABLE fo:5,7.5,10,12.5kHz
BASS,TREBLE, MIDDLE (-15dB~+15dB,1dB STEP)
VOLUME (+23~-79dB,-∞dB 1dB STEP)
fc:40kHz
ANTI-ALIASING FILTER
INPUT GAIN (0~15dB,1dB STEP)
MUTE
INPUT SELECTOR (4 STEREO INCLUDE 1 ISOLATION INPUT)
VCC/2
AGND FIL AP1 AN AP2 B1 B2 C1 C2 NC NC NC NC NC NC NC

• IC PIN DESCRIPTIONS

• IC500 BU9536KS2 (RF AMP, DIGITAL SERVO) (SERVO BOARD (1/2))

Pin No.	Pin Name	I/O	Pin Description
1	AVDD1	—	Analog power supply pin (+3.3 V)
2	AC	I	A+C voltage signal input from optical pick-up block
3	BD	I	B+D voltage signal input from optical pick-up block
4	VBIAS	O	Bias level (VDD/2) signal output
5	E	I	E voltage signal input from optical pick-up block
6	F	I	F voltage signal input from optical pick-up block
7	AGND1	—	Analog ground pin
8	FEN	I	Focus error amplifier feedback signal input
9	FEO	O	Focus error signal output
10	PKC	O	RF signal peak detection capacitance connected pin
11	BTC	O	RF signal bottom detection capacitance connected pin
12	PD	I	APC photo detecter signal input
13	LD	O	APC laser drive signal output
14	PCO	O	PLL PCO signal output
15	FCO	O	PLL FCO-DAC signal output
16	ASY	I	Asymmetry revice and ccomparator slice capacitor install pin
17	JUMPO	O	Tracking jump pulse signal output
18	TDOUT	O	Tracking drive signal output
19	SDIN	I	Sled signal input
20	SDOUT	O	Sled drive signal output
21	FDOUT	O	Focus drive signal output
22	CLVOUT	O	CLV drive signal output
23	CLK88	O	Clock signal output for driver IC Not used in this set. (Open)
24	LON	O	Laser on control signal output
25	CLK	O	Clock signal output Not used in this set. (Open)
26	MCK	I	Transfer clock signal input for sub Q and command
27	DIN/DOUT	I/O	Command signal input/status, sub-Q signal output
28	R/W	I	Read/write signal input for command
29	RESETX	I	System reset signal input “L”: reset
30	BUSY	O	Busy signal output
31	SUBSYQ	O	Sub cord synchronizing signal output
32	SUBDATA	O	Sub cord data signal output
33	SUBCK	I	Sub cord bit clock signal input Not used in this set. (Fixed at “L”.)
34	WFCK	O	Disc frame synchronizing signal output
35	DOUTA	O	Audio serial data signal output
36	LRCK	O	Audio LR signal output
37	DCK	O	Audio serial bit clock signal output
38	EFLAG	I/O	Error flag signal input/output
39	BUFO	O	X'tal 16.9344 MHz buffer signal output Not used in this set. (Open)
40	XPLCK	I/O	XPLCK signal input/output Not used in this set. (Open)
41	DVDD	—	Digital power supply pin (+3.3 V)
42	XI	I	X'tal 16.9344 MHz connect input
43	XO	O	X'tal 16.9344 MHz connect output
44	DGND	—	Digital ground pin
45	RFRPPFM	O	RFRP capacitor install pin or RF test monitor signal output
46	TZCRFM	O	TZC capacitor install pin or RF monitor signal output
47	SC	I	Scratch depth adjustment resistor connected pin
48	TEO	O	Tracking error signal output

Pin No.	Pin Name	I/O	Pin Description
49	TEN	I	Tracking error amplifier feedback signal input
50	CAGC	I	RFAGC capacitor install pin
51	RFI	I	RF signal input
52	EQO	O	RF equalizer signal output

• IC400 SPCA717A-HL211 (VIDEO SIGNAL PROCESSOR) (SERVO BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	FSADJUST	—	Full-Scale adjust control pin The Full-Scale current of D/A converters can be adjusted by connecting a resistor (RESET) between this pin and ground.
2	COMP	—	Compensation pin A0.1 µF ceramic capacitor must be used to bypass this pin to VAA. The lead length must be kept as short as possible to avoid noise.
3	AVCC	—	Analog power supply pin (+3.3 V)
4	VREF OUT	O	Voltage reference signal output It generates typical 1.2 V voltage reference and may be used to drive pin ⑤ (VREF IN) directly.
5	VREF IN	I	Voltage reference signal input An external voltage reference must supply typical 1.235 V to this pin. A0.1 µF ceramic capacitor must be used to de-couple this input to ground. The decoupling capacitor must be as closed as possible to minimize the length of the load. The pin may be connected derectry to pin ④ (VREF OUT).
6	VBIAS	—	DAC bias voltage Potential normally 0.7 V less than pin ② (COMP).
7	NC	—	Not used. (Open)
8	AGND	—	Analog ground pin
9	SLEEP	I	Power save mode A logic high on this pin puts the chip into power-down mode. This pin is equal to reset pin. An external logic high pulse should input to the pin when power on.
10	SVIDEO	I	Video signal selection pin A logic high selects Y output. A logic low selects composite video output. Not used in this set. (Fixed at “L”.)
11	CBSWAP	I	Cr and Cb pixel sequence configuration pin A logic high swap the Cr and Cb sequence. Not used in this set. (Fixed at “L”.)
12	MASTER	I	Master/Slave mode selection A logical high for master mode operation. A logical 0 for slave mode operation. Not used in this set. (+3.3 V)
13	MODEA	I	Mode configuration pin Not used in this set. (Fixed at “L”.)
14	MODEB	I	Mode configuration pin
15	CLK	I	27 MHz crystal oscillator input A crystal with 27 MHz clock frequency can be connected between this pin and pin ⑯ (XTALO).
16	XTALO	O	Crystal oscillator output Not used in this set. (Open)
17 to 24	P0 to P7	I	YCrCb pixel inputs They are latched on the rising edge of CLK.
25	CLKOUT	O	Pixel clock signal output Not used in this set. (Open)
26	DGND	—	Digital ground pin
27	VDD	—	Digital power supply pin (+3.3 V)
28	VSYNC	I/O	Vertical sync input/output VSYNC is latched/output following the rising edge of CLK.
29	HSYNC	I/O	Horizontal sync input/output HSYNC is latched/output following the rising edge of CLK.
30	TEST	I	Test pin These pins must be connected to digital ground.
31	AGND	—	Analog ground pin.
32	CVBSY	O	Composite/Luminance output. This is a high-impedance current source output. The output format can be selected by the PAL pin. The CVBSY can drive a 37.5 Ω load.

• IC801 MB90488BPF-G-135-BNDE1 (SYSTEM CONTROL) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	LINE ATT	O	Audio mute control signal output
2 to 4	NC	—	Not used in this set. (Open)
5	BEEP	O	Beep signal output to power amp IC
6	VOL ATT	O	Electrical volume ATT control signal output
7 to 10	NC	—	Not used in this set. (Open)
11	VSS	—	Ground pin
12 to 14	NC	—	Not used in this set. (Open)
15	TU ATT	O	Tuner mute control signal output
16, 17	NC	—	Not used in this set. (Open)
18	CD SI	I	CD servo serial data signal input
19	CD SO	O	CD servo serial data signal output
20	CD SCK	O	CD servo serial clock signal output
21, 22	NC	—	Not used in this set. (Open)
23	VCC+3.3	—	Power supply pin (+3.3 V)
24	EEP SIO	I/O	Serial data signal input/output for EEPROM communication
25	EEP SCK	O	Serial clock signal output for EEPROM communication
26	SHUT SW	I	Shutter switch open/close detect signal input “L”: Panel open, “H”: Panel close Not used in this set. (Open)
27	LCD CE	O	Chip enable signal output to LCD driver IC
28	LCD SO	O	Serial data signal output to LCD driver IC Flash: UART serial out
29	LCD SCK	O	Serial clock signal output to LCD driver IC
30	NC	—	Not used in this set. (Open)
31	STB	O	Standby signal output to power amp IC
32	AUX	—	Not used in this set. (Open)
33	IIC SCK	O	IIC bus serial clock signal output
34	IIC SIO	I/O	IIC bus serial data signal input/output
35	VCC+3.3	—	Power supply pin (+3.3 V) (for A/D converter)
36	AVRH+3.3	—	External reference power supply (+3.3 V) (for A/D converter)
37	AVSS	—	Ground pin (for A/D converter)
38, 39	KEY IN0, 1	I	Key signal input
40	NC	—	Not used in this set. (Open)
41	NC	—	Not used in this set. (Fixed at “H”.)
42	VSS	—	Ground pin
43, 44	NC	—	Not used in this set. (Fixed at “L”.)
45	VSM	I	S meter voltage detect signal input
46	DST SEL	I	Destination select pin
47	KEY ACK	I	Key acknowledge detect signal input
48	NC	—	Not used in this set. (Open)
49, 50	MD0, 1	I	Input for operation mode designation (Fixed at “H”.)
51	MD2	I	Input for operation mode designation (Fixed at “L”.)
52	NC	—	Not used in this set. (Open)
53	BU IN	I	Back up power supply detect signal input
54	SP	O	SP mode select signal output
55	CD SELFSW	I	CD mechanism self load position detect switch signal input
56	DIAG	I	Condition input from power amp IC
57	NC	—	Not used in this set. (Open)
58	UNI SI	I	Serial data signal input
59	UNI SO	O	Serial data signal output
60	UNI SCK	O	Serial clock signal output Not used in this set. (Open)
61	BUS ON	O	Bus on signal output
62	SYS RST	O	System reset signal output
63	NC	—	Not used in this set. (Open)

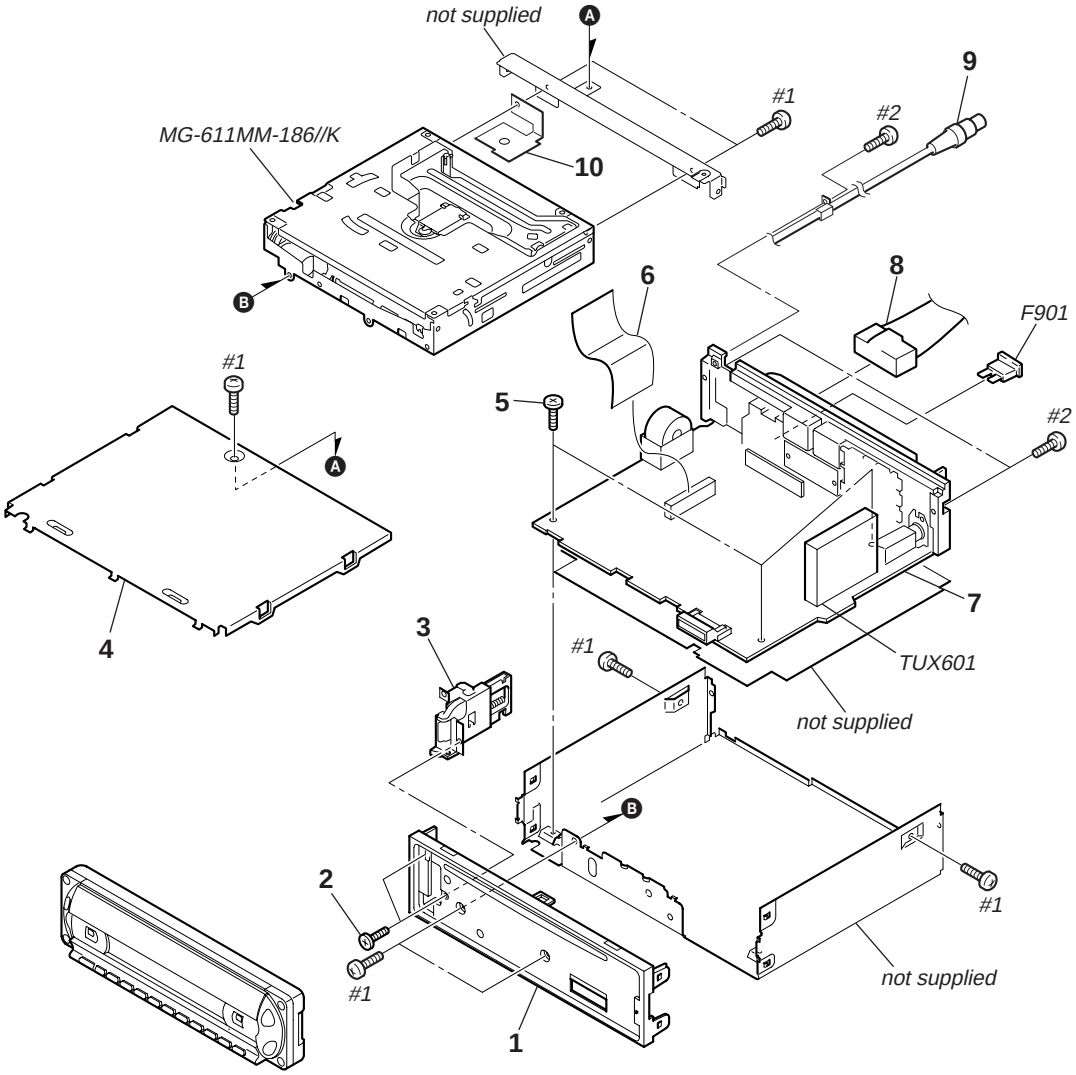
Pin No.	Pin Name	I/O	Pin Description
64	ACC IN	I	Accessory power supply detect signal input
65	SIRCS	I	Remote control signal (infrared rays) input
66	NC	—	Not used in this set. (Fixed at “L”.)
67	$\overline{\text{PAK BK}}$	I	Test mode detect signal input
68	FLASH W	I	Memory mode changeover signal input Normally “H” input (single chip mode) “L” after reset: Flash write mode
69 to 71	NC	—	Not used in this set. (Open)
72	DOOR SW	I	Front panel open/close detect signal input “L” input: Panel close, “H” input: Panel open
73, 74	NC	—	Not used in this set. (Fixed at “H”.)
75	XKEY ON	O	Key power supply control signal output Pin ㊼ (KEY ACK) active: “L” output
76	NC	—	Not used in this set. (Open)
77	RESET	I	Reset signal input
78	NC	—	Not used in this set. (Open)
79	X1A	—	Oscillator connect pin (32.768 kHz)
80	X0A	—	Oscillator connect pin (32.768 kHz)
81	VSS	—	Ground pin
82	X0	—	Oscillator connect pin (3.68 MHz)
83	X1	—	Oscillator connect pin (3.68 MHz)
84	VCC+3.3	—	Power supply pin (+3.3 V)
85, 86	NC	—	Not used in this set. (Open)
87	CD ON	O	CD power on/off control signal output
88	NC	—	Not used in this set. (Open)
89	TEST MODE	I	Test mode pin
90	MP	O	MP mode select signal output
91	NC	—	Not used in this set. (Open)
92	CD IN SW	I	CD mechanism IN-SW detect signal input
93	CD LOAD	O	CD mechanism loading motor control signal output
94	EJECT	O	CD mechanism eject motor control signal output
95	D SW	I	CD mechanism DSW detect signal input
69, 97	NC	—	Not used in this set. (Open)
98	CD XRST	O	CD servo reset signal output
99	NC	—	Not used in this set. (Open)
100	NC	—	Not used in this set. (Open)

SECTION 4
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.

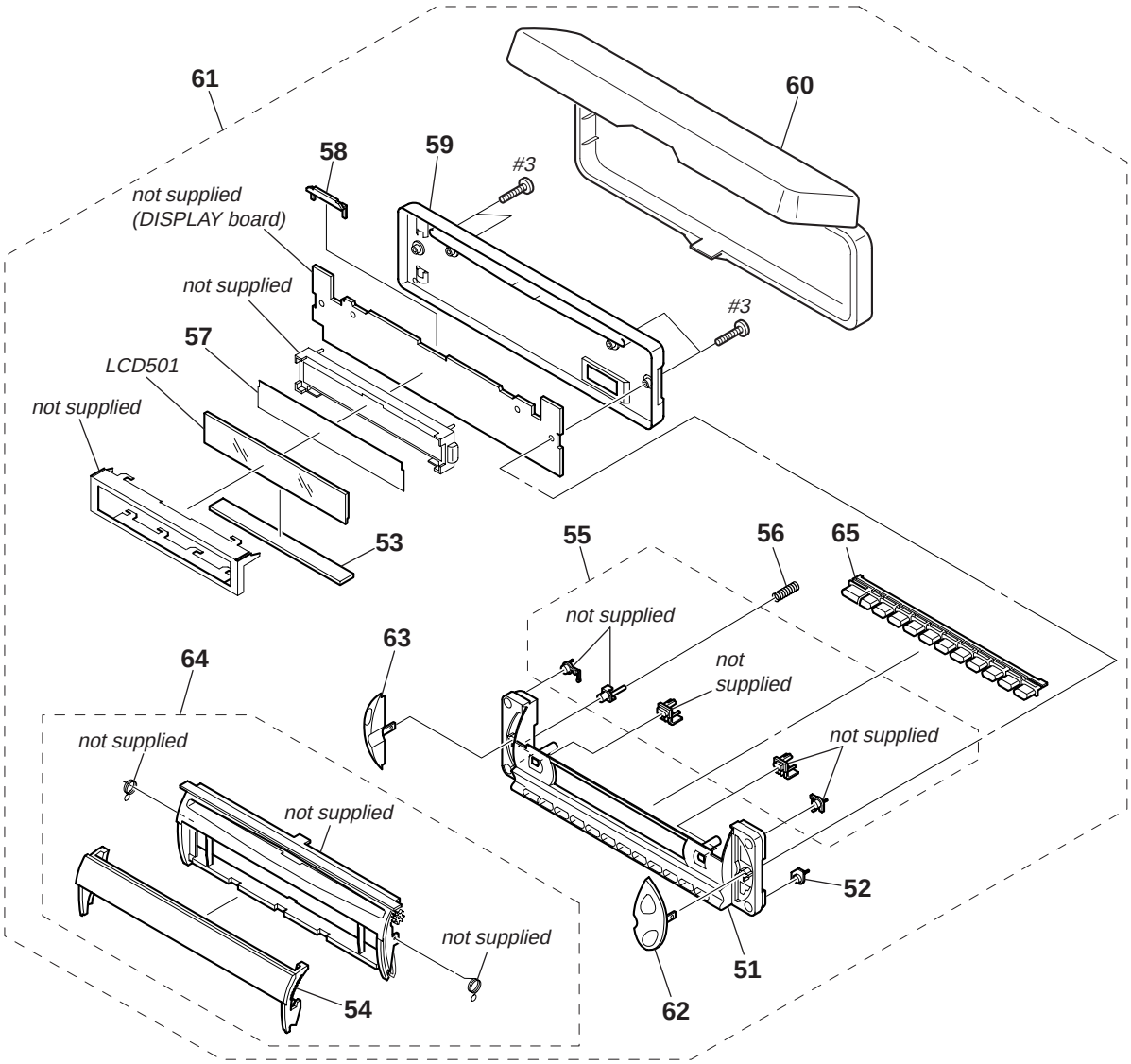
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-3384-407-1	PANEL (1) ASSY, SUB	
2	3-231-472-02	SCREW (+B 2X4)	
3	X-3382-588-1	LOCK ASSY (S)	
* 4	3-246-006-31	COVER	
5	3-922-535-11	SCREW (+BTT)	
6	1-829-847-11	CABLE, FLAT (FFC) 26P	
7	A-1096-245-A	MAIN BOARD, COMPLETE	
8	1-792-194-61	CORD (WITH CONNECTOR) (POWER)	
9	1-829-836-12	CORD, CONNECTION (VIDEO OUT)	
10	2-178-708-01	SHEET, SHIELD	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TUX601	A-3220-961-A	TUNER UNIT (TUX-032)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	

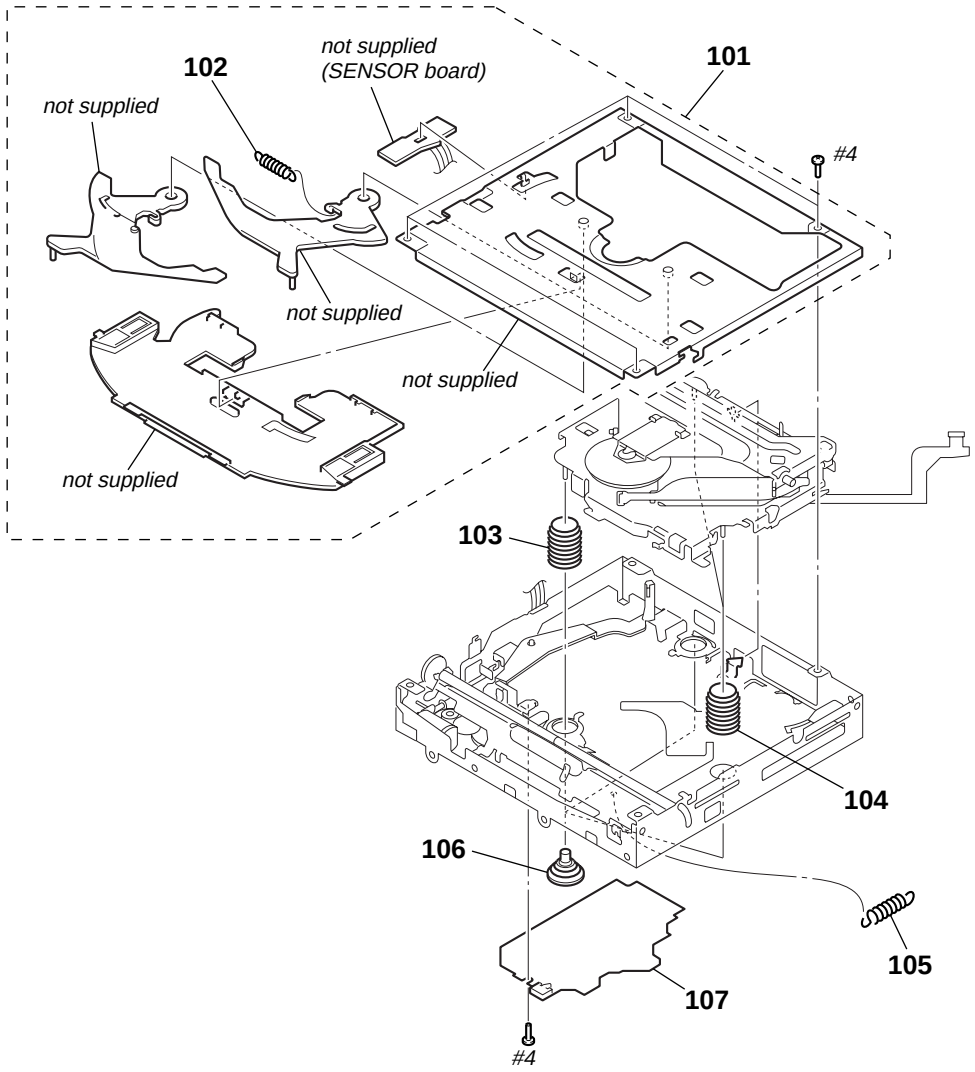
4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-2024-914-1	PANEL (BASE) ASSY, FRONT	
52	3-258-879-01	FILTER (IR)	
53	1-780-120-11	CONDUCTIVE BOARD, CONNECTION	
54	X-3384-622-1	SHUTTER ASSY	
55	X-3384-457-2	BUTTON ASSY (S)	
56	3-246-211-01	SPRING (RELEASE)	
57	3-258-884-01	SHEET (ILLUMINATOR)	
58	3-258-880-01	PLATE (CD), LIGHT GUIDE	
59	3-258-869-02	PANEL, FRONT BACK	

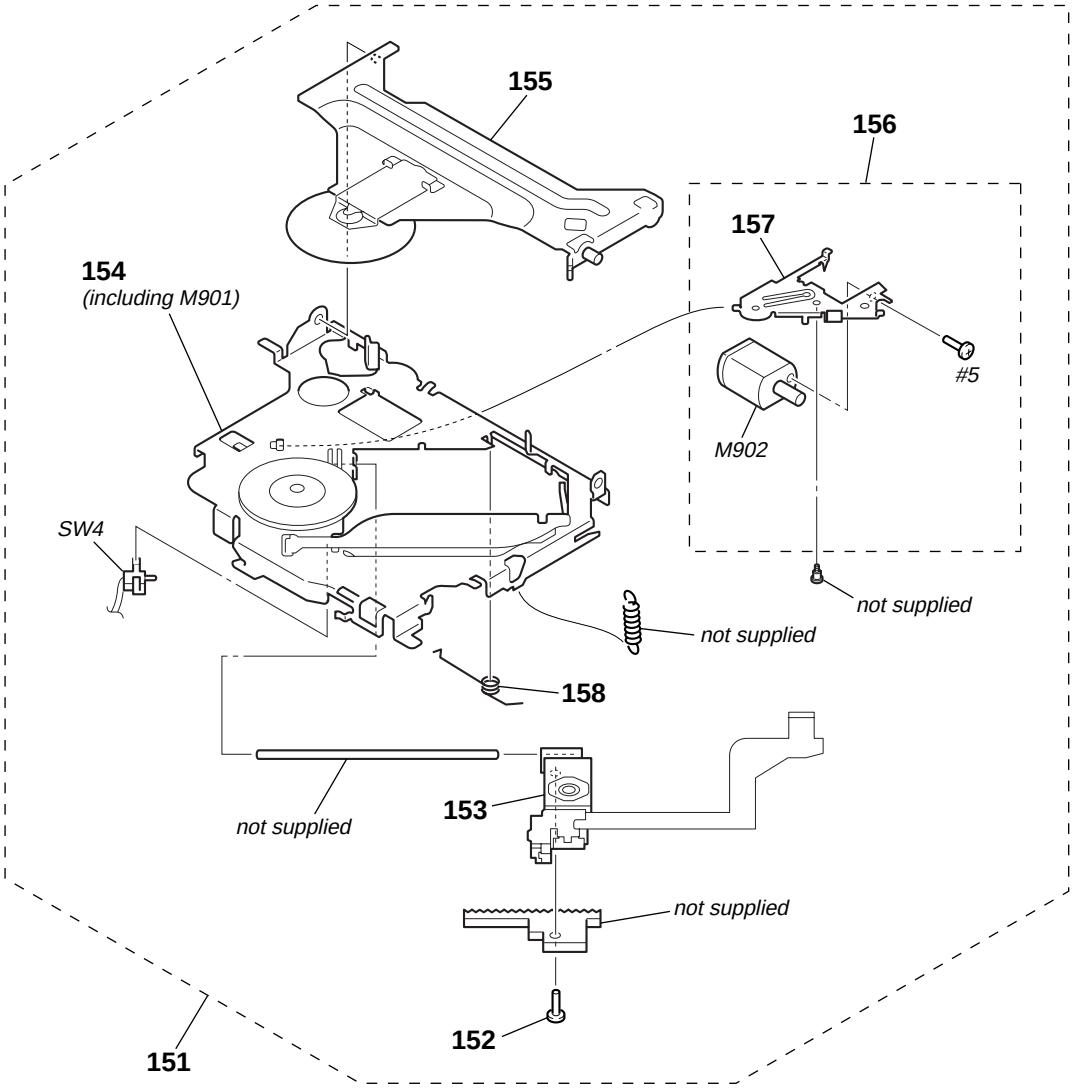
Ref. No.	Part No.	Description	Remark
60	X-3378-390-3	CASE ASSY (for FRONT PANEL)	
61	A-1096-248-A	PANEL COMPLETED ASSY, FRONT	
62	3-258-874-12	BUTTON (SEEK)	
63	3-258-873-12	BUTTON (+.–)	
64	X-3384-621-2	RETRACTABLE ASSY	
65	3-258-875-31	BUTTON (PRESET)	
LCD501	1-805-451-11	DISPLAY PANEL, LIQUID CRYSTAL	
#3	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	

4-3. CD MECHANISM SECTION (1)
(MG-611MM-186//K)



Ref. No.	Part No.	Description	Remark
101	A-3372-455-A	CHASSIS (T) SUB ASSY	
102	3-253-729-01	SPRING (LTR), TENSION COIL	
103	3-253-746-14	SPRING (DAMPER), COMPRESSION	
104	3-253-746-03	SPRING (DAMPER), COMPRESSION	
105	2-345-767-01	SPRING (KF60), TENSION	
106	3-253-748-01	DAMPER (S)	
107	A-1107-620-A	SERVO BOARD, COMPLETE	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

4-4. CD MECHANISM SECTION (2)
(MG-611MM-186//K)

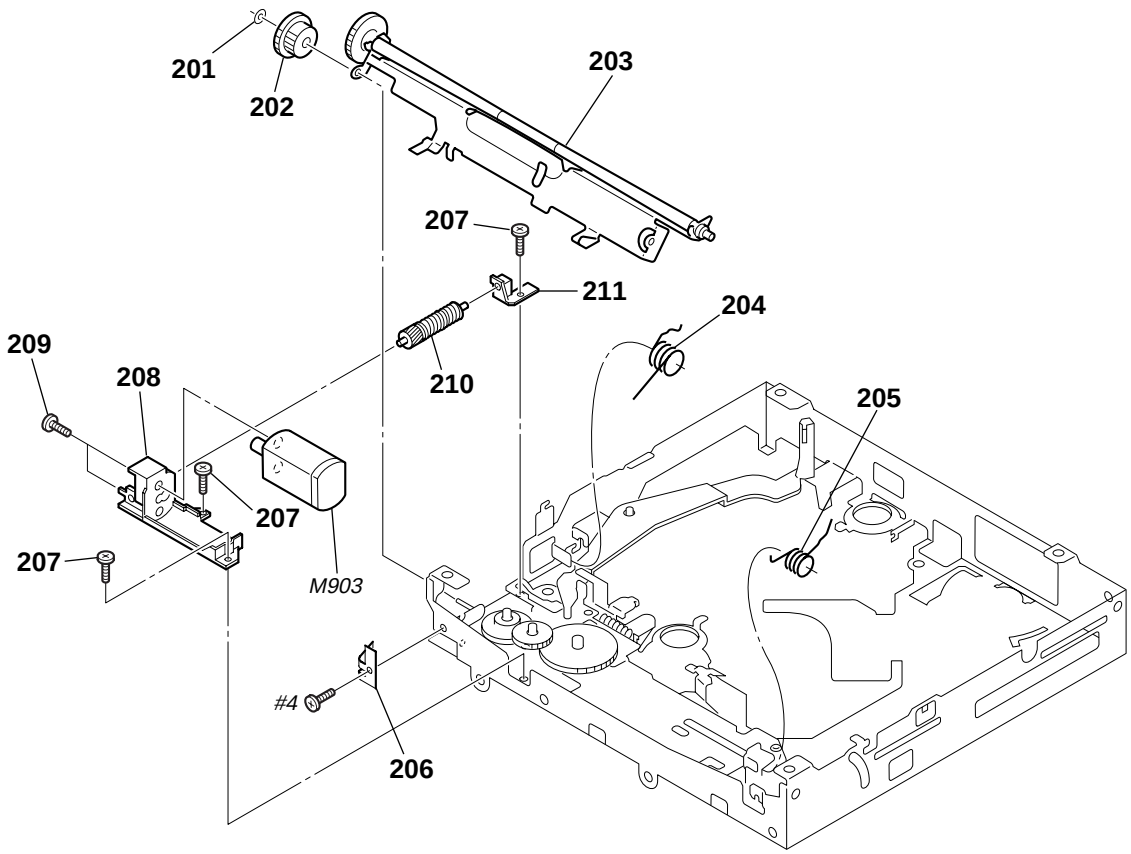


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
151	A-1075-786-A	CHASSIS (OP) COMPLETE ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING	
⚠153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-1075-787-A	CHASSIS (OP) SUB ASSY (including M901)	
155	A-3337-641-A	ARM SUB ASSY, CHUCKING	
156	A-3337-639-A	LEVER (SL) SUB ASSY	

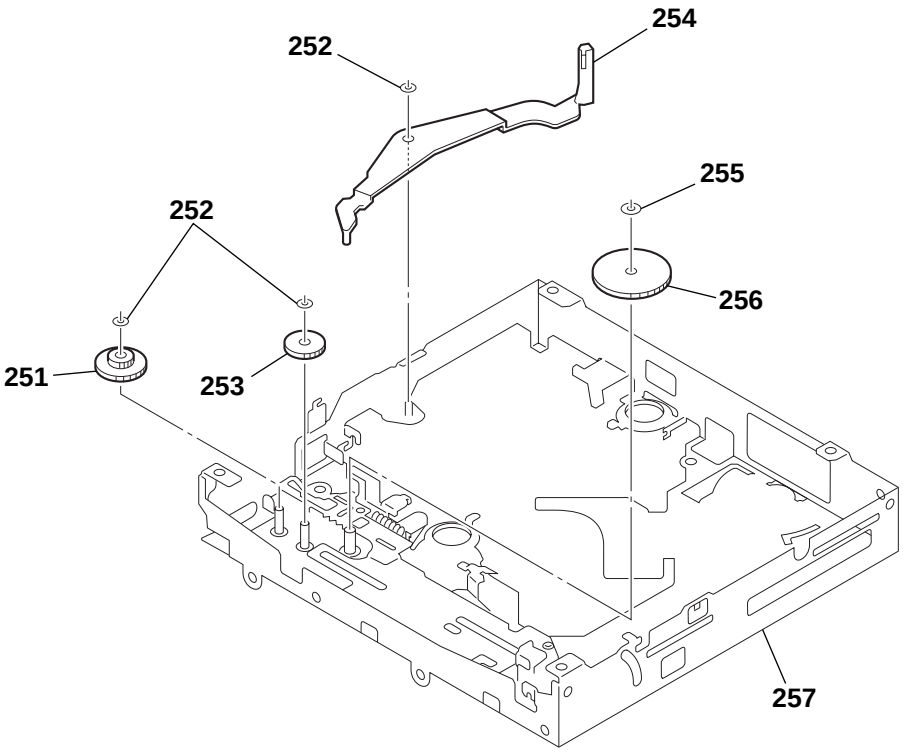
Ref. No.	Part No.	Description	Remark
157	X-3383-454-3	LEVER (SL) ASSY	
158	3-261-959-02	SPRING (SL), TORSION	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

4-5. CD MECHANISM SECTION (3)
(MG-611MM-186//K)



Ref. No.	Part No.	Description	Remark
201	3-262-755-01	WASHER (1.1-2.5)	
202	2-186-699-11	GEAR (RA1)	
203	A-1075-789-A	ARM ASSY, ROLLER	
204	3-259-455-02	SPRING (RAL)	
205	3-253-713-01	SPRING (RAR)	
206	3-259-469-01	SPRING (LE), LEAF	
207	2-134-636-31	SCREW (M1.7X2.5)	
208	2-186-696-11	BRACKET (LEM-N)	
209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
210	A-1083-637-A	GEAR (LE) ASSY	
211	2-186-697-11	BEARING (LEB-N)	
M903	A-1075-792-A	MOTOR ASSY, LE (LOADING)	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

4-6. CD MECHANISM SECTION (4)
(MG-611MM-186//K)



Ref. No.	Part No.	Description	Remark
251	2-186-700-11	GEAR (CHK1)	
252	3-344-223-01	WASHER	
253	3-259-470-01	GEAR (LE1)	
254	3-253-755-02	LEVER (D)	
255	3-899-829-01	WASHER (SLIT)	
256	3-259-032-01	GEAR (LE2)	
257	A-1075-791-A	CHASSIS (M) BLOCK ASSY	

DISPLAY

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		DISPLAY BOARD **********			
	1-780-120-11	CONDUCTIVE BOARD, CONNECTION			
	3-258-884-01	SHEET (ILLUMINATOR)			
		< CAPACITOR >			
C551	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C553	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C960	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN901	1-794-312-21	PIN, CONNECTOR 12P			
		< DIODE >			
D502	8-719-977-12	DIODE DTZ6.8B			
D503	8-719-977-12	DIODE DTZ6.8B			
D504	8-719-977-12	DIODE DTZ6.8B			
D505	8-719-977-12	DIODE DTZ6.8B			
D551	8-719-080-28	DIODE KDZ5.1V			
D552	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC501	6-707-063-01	IC LC75826WH-US-E			
IC502	6-600-384-01	IC KSM-401E (IR)			
		< LIQUID CRYSTAL DISPLAY >			
LCD501	1-805-451-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED501	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT)			
LED502	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT)			
LED503	8-719-053-09	LED SML-310VTT86 (CD WINDOW)			
LED504	8-719-053-09	LED SML-310VTT86 (2/SHUF)			
LED505	8-719-053-09	LED SML-310VTT86 (1/REP)			
LED506	8-719-053-09	LED SML-310VTT86 (SENS/ALBUM –)			
LED507	8-719-053-09	LED SML-310VTT86 (ATT)			
LED508	8-719-053-09	LED SML-310VTT86 (6/PAUSE)			
LED509	8-719-053-09	LED SML-310VTT86 (5/OSD)			
LED510	8-719-053-09	LED SML-310VTT86 (4/AUDIO)			
LED511	8-719-053-09	LED SML-310VTT86 (3/SLOW)			
LED512	8-719-053-09	LED SML-310VTT86 (SCRL)			
LED513	8-719-053-09	LED SML-310VTT86 (DSPL)			
LED514	8-719-053-09	LED SML-310VTT86 (EQ3)			
LED515	8-719-053-09	LED SML-310VTT86 (OFF)			
LED516	8-719-053-09	LED SML-310VTT86 (SEEK –/◀◀ I◀◀)			
LED517	8-719-053-09	LED SML-310VTT86 (SEEK +/▶▶I ▶▶)			
LED518	8-719-053-09	LED SML-310VTT86 (BTM/ALBUM +)			
LED520	8-719-053-09	LED SML-310VTT86 (VOL –)			
LED521	8-719-053-09	LED SML-310VTT86 (VOL +)			
LED522	8-719-053-09	LED SML-310VTT86 (SEL)			
LED524	8-719-053-09	LED SML-310VTT86 (SOURCE)			
LED525	8-719-053-09	LED SML-310VTT86 (MODE)			
		< TRANSISTOR >			
Q502	8-729-038-67	TRANSISTOR KRC102S			
		< RESISTOR >			
R501	1-216-819-11	METAL CHIP	680	5%	1/10W
R502	1-216-819-11	METAL CHIP	680	5%	1/10W
R503	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R504	1-216-819-11	METAL CHIP	680	5%	1/10W
R505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R506	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R507	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R509	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R510	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R511	1-216-819-11	METAL CHIP	680	5%	1/10W
R512	1-216-819-11	METAL CHIP	680	5%	1/10W
R513	1-216-819-11	METAL CHIP	680	5%	1/10W
R514	1-216-821-11	METAL CHIP	1K	5%	1/10W
R515	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R516	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R517	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R518	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R519	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R531	1-216-813-11	METAL CHIP	220	5%	1/10W
R532	1-216-813-11	METAL CHIP	220	5%	1/10W
R533	1-216-813-11	METAL CHIP	220	5%	1/10W
R535	1-216-815-11	METAL CHIP	330	5%	1/10W
R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R537	1-216-809-11	METAL CHIP	100	5%	1/10W
R551	1-216-815-11	METAL CHIP	330	5%	1/10W
R552	1-216-815-11	METAL CHIP	330	5%	1/10W
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R554	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-821-11	METAL CHIP	1K	5%	1/10W
R560	1-216-821-11	METAL CHIP	1K	5%	1/10W
R561	1-216-857-11	METAL CHIP	1M	5%	1/10W
R571	1-216-809-11	METAL CHIP	100	5%	1/10W
R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R573	1-216-809-11	METAL CHIP	100	5%	1/10W
R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R575	1-216-809-11	METAL CHIP	100	5%	1/10W
R576	1-216-809-11	METAL CHIP	100	5%	1/10W
R577	1-216-809-11	METAL CHIP	100	5%	1/10W
R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R579	1-216-809-11	METAL CHIP	100	5%	1/10W
R580	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S501	1-786-763-11	SWITCH, TACTILE (EJECT)			
S502	1-786-763-11	SWITCH, TACTILE (EJECT)			
S503	1-786-763-11	SWITCH, TACTILE (OFF)			
S504	1-786-763-11	SWITCH, TACTILE (SOURCE)			
S505	1-786-763-11	SWITCH, TACTILE (MODE)			
S506	1-786-763-11	SWITCH, TACTILE (SEL)			
S507	1-786-763-11	SWITCH, TACTILE (VOL +)			
S508	1-786-763-11	SWITCH, TACTILE (VOL –)			
S509	1-786-763-11	SWITCH, TACTILE (ATT)			
S510	1-786-763-11	SWITCH, TACTILE (SENS/ALBUM –)			
S511	1-786-763-11	SWITCH, TACTILE (1/REP)			
S512	1-786-763-11	SWITCH, TACTILE (2/SHUF)			
S513	1-786-763-11	SWITCH, TACTILE (SEEK +/▶▶I ▶▶)			
S514	1-786-763-11	SWITCH, TACTILE (SEEK –/◀◀ I◀◀)			
S515	1-786-763-11	SWITCH, TACTILE (EQ3)			
S516	1-786-763-11	SWITCH, TACTILE (DSPL)			
S517	1-786-763-11	SWITCH, TACTILE (SCRL)			
S518	1-786-763-11	SWITCH, TACTILE (6/PAUSE)			
S519	1-786-763-11	SWITCH, TACTILE (5/OSD)			
S520	1-786-763-11	SWITCH, TACTILE (4/AUDIO)			
S521	1-786-763-11	SWITCH, TACTILE (3/SLOW)			
S522	1-529-566-61	SWITCH, PUSH (1 KEY) (OPEN)			
S523	1-786-763-11	SWITCH, TACTILE (BTM/ALBUM +)			
**********					
	A-1096-245-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD)			
		**********			
	7-621-284-40	SCREW +P 2.6X10			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C101	1-126-964-11	ELECT	10uF	20%	50V
C106	1-126-965-11	ELECT	22uF	20%	50V
C107	1-126-964-11	ELECT	10uF	20%	50V
C109	1-104-665-11	ELECT	100uF	20%	25V
C111	1-126-964-11	ELECT	10uF	20%	50V
C113	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C408	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V

Ref. No.	Part No.	Description			Remark
C409	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C410	1-126-960-11	ELECT	1uF	20%	50V
C411	1-126-960-11	ELECT	1uF	20%	50V
C412	1-126-960-11	ELECT	1uF	20%	50V
C413	1-126-960-11	ELECT	1uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-126-947-11	ELECT	47uF	20%	35V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C422	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-126-964-11	ELECT	10uF	20%	50V
C425	1-126-964-11	ELECT	10uF	20%	50V
C426	1-126-964-11	ELECT	10uF	20%	50V
C428	1-126-964-11	ELECT	10uF	20%	50V
C430	1-126-947-11	ELECT	47uF	20%	35V
C433	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C435	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C436	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C437	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C438	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C439	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C440	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C441	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C443	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C444	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C446	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C447	1-126-961-11	ELECT	2.2uF	20%	50V
C450	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C451	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C453	1-126-964-11	ELECT	10uF	20%	50V
C454	1-126-964-11	ELECT	10uF	20%	50V
C612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C614	1-115-156-11	CERAMIC CHIP	1uF		10V
C618	1-126-947-11	ELECT	47uF	20%	35V
C619	1-126-964-11	ELECT	10uF	20%	50V
C620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C701	1-124-584-00	ELECT	100uF	20%	10V
C704	1-124-584-00	ELECT	100uF	20%	10V
C705	1-124-584-00	ELECT	100uF	20%	10V
C706	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C707	1-124-584-00	ELECT	100uF	20%	10V
C709	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C711	1-124-589-11	ELECT	47uF	20%	16V
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C809	1-104-665-11	ELECT	100uF	20%	25V
C810	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C813	1-104-665-11	ELECT	100uF	20%	25V
C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C816	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C817	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C821	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C822	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C825	1-104-665-11	ELECT	100uF	20%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C908	1-123-611-61	ELECT	1uF	20%	50V
C922	1-131-868-81	ELECT	3300uF	20%	16V
C990	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C991	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C992	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C993	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C994	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
		< CONNECTOR >			
CN751	1-779-294-11	CONNECTOR, FFC (LIF(NON-ZIF)) 26P			
CNP800	1-794-311-21	PLUG, CONNECTOR 12P			
CNP901	1-774-701-21	PIN, CONNECTOR 16P			
		< DIODE >			
D301	8-719-977-12	DIODE DTZ6.8B			
D400	8-719-080-34	DIODE SDS511			
D600	8-719-069-55	DIODE UDZSTE-175.6B			
D701	8-719-080-34	DIODE SDS511			
D702	8-719-080-34	DIODE SDS511			
D801	8-719-080-34	DIODE SDS511			
D802	8-719-058-24	DIODE RB501V-40TE-17			
D808	8-719-977-12	DIODE DTZ6.8B			
D811	8-719-109-97	DIODE RD6.8ESB2			
D812	8-719-109-97	DIODE RD6.8ESB2			
D813	8-719-109-97	DIODE RD6.8ESB2			
D814	8-719-109-97	DIODE RD6.8ESB2			
D815	8-719-109-97	DIODE RD6.8ESB2			
D816	8-719-109-97	DIODE RD6.8ESB2			
D817	8-719-109-97	DIODE RD6.8ESB2			
D820	8-719-991-33	DIODE 1SS133T-77			
D823	8-719-083-66	DIODE UDZSTE-1718B			
D825	8-719-083-66	DIODE UDZSTE-1718B			
D902	8-719-053-18	DIODE 1SR154-400TE-25			
D903	8-719-053-18	DIODE 1SR154-400TE-25			
D904	6-500-522-01	DIODE 10EDB40-TA1B2			
D905	6-500-522-01	DIODE 10EDB40-TA1B2			
D906	6-500-522-01	DIODE 10EDB40-TA1B2			
D907	6-500-522-01	DIODE 10EDB40-TA1B2			
D908	6-500-522-01	DIODE 10EDB40-TA1B2			
D909	6-500-522-01	DIODE 10EDB40-TA1B2			
D912	8-719-083-66	DIODE UDZSTE-1718B			
D914	8-719-977-12	DIODE DTZ6.8B			
D915	8-719-056-84	DIODE UDZ-TE-17-7.5B			
D916	6-500-522-01	DIODE 10EDB40-TA1B2			
D917	6-500-522-01	DIODE 10EDB40-TA1B2			
D918	8-719-987-69	DIODE DAN217			
D919	8-719-049-38	DIODE 1N5404TU			
D921	6-500-522-01	DIODE 10EDB40-TA1B2			
D922	6-500-522-01	DIODE 10EDB40-TA1B2			
		< FERRITE BEAD >			
FB702	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB901	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB902	1-414-813-11	FERRITE, EMI (SMD) (2012)			
		< IC >			
IC100	6-705-360-02	IC TDA8588BJ/N2/R1			
IC401	6-705-372-01	IC BD3808FS-FE2			

Ref. No.	Part No.	Description			Remark
IC801	6-805-155-01	IC MB90488BPF-G-135-BNDE1			
IC802	8-759-659-13	IC PST3428UL			
		< JUMPER RESISTOR >			
JR5	1-216-864-11	SHORT CHIP	0		
JR6	1-216-864-11	SHORT CHIP	0		
JR10	1-414-227-11	INDUCTOR, FERRITE BEAD			
JR12	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L400	1-414-398-11	INDUCTOR	10uH		
L602	1-414-394-41	INDUCTOR	2.2uH		
L700	1-410-509-11	INDUCTOR	10uH		
L701	1-410-501-11	INDUCTOR	2.2uH		
L702	1-410-509-11	INDUCTOR	10uH		
L703	1-414-813-11	FERRITE, EMI (SMD) (2012)			
L900	1-456-617-11	COIL, CHOKE			
		< JACK >			
PJ401	1-774-700-11	JACK, PIN 6P (AUX IN, AUDIO OUT REAR/FRONT)			
PJ601	1-793-598-11	JACK (ANTENNA)			
		< TRANSISTOR >			
Q400	8-729-038-71	TRANSISTOR KRC107S			
Q401	8-729-038-55	TRANSISTOR KRA103S			
Q402	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P			
Q403	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P			
Q404	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P			
Q405	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P			
Q406	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P			
Q407	6-551-070-01	TRANSISTOR KRC283S-B-RPK/P			
Q601	8-729-920-85	TRANSISTOR 2SD1664-QR			
Q701	8-729-106-60	TRANSISTOR 2SB1115A-YQ			
Q703	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q800	8-729-038-55	TRANSISTOR KRA103S			
Q900	8-729-034-51	TRANSISTOR KTC3875			
Q902	8-729-038-67	TRANSISTOR KRC102S			
Q906	8-729-034-51	TRANSISTOR KTC3875			
Q907	8-729-038-67	TRANSISTOR KRC102S			
		< RESISTOR >			
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-864-11	SHORT CHIP	0		
R403	1-216-864-11	SHORT CHIP	0		
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-864-11	SHORT CHIP	0		
R409	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0		
R414	1-216-809-11	METAL CHIP	100	5%	1/10W
R415	1-216-809-11	METAL CHIP	100	5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R417	1-216-809-11	METAL CHIP	100	5%	1/10W
R418	1-216-841-11	METAL CHIP	47K	5%	1/10W
R419	1-216-841-11	METAL CHIP	47K	5%	1/10W
R420	1-216-841-11	METAL CHIP	47K	5%	1/10W
R421	1-216-841-11	METAL CHIP	47K	5%	1/10W
R424	1-216-805-11	METAL CHIP	47	5%	1/10W
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R426	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R429	1-247-807-31	CARBON	100	5%	1/4W
R430	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R431	1-247-807-31	CARBON	100	5%	1/4W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-821-11	METAL CHIP	1K	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-841-11	METAL CHIP	47K	5%	1/10W
R443	1-216-841-11	METAL CHIP	47K	5%	1/10W
R447	1-216-811-11	METAL CHIP	150	5%	1/10W
R448	1-216-841-11	METAL CHIP	47K	5%	1/10W
R468	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R603	1-247-807-31	CARBON	100	5%	1/4W
R604	1-247-807-31	CARBON	100	5%	1/4W
R606	1-216-809-11	METAL CHIP	100	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R702	1-216-033-00	RES-CHIP	220	5%	1/10W
R703	1-216-864-11	SHORT CHIP	0		
R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R708	1-216-864-11	SHORT CHIP	0		
R709	1-216-864-11	SHORT CHIP	0		
R800	1-216-864-11	SHORT CHIP	0		
R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-809-11	METAL CHIP	100	5%	1/10W
R805	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R806	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R809	1-216-845-11	METAL CHIP	100K	5%	1/10W
R810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R812	1-216-845-11	METAL CHIP	100K	5%	1/10W
R813	1-216-845-11	METAL CHIP	100K	5%	1/10W
R814	1-216-845-11	METAL CHIP	100K	5%	1/10W
R815	1-249-435-11	CARBON	33K	5%	1/4W
R816	1-216-821-11	METAL CHIP	1K	5%	1/10W
R817	1-216-821-11	METAL CHIP	1K	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
R821	1-216-817-11	METAL CHIP	470	5%	1/10W
R822	1-216-817-11	METAL CHIP	470	5%	1/10W
R823	1-216-817-11	METAL CHIP	470	5%	1/10W
R824	1-216-849-11	METAL CHIP	220K	5%	1/10W
R825	1-216-849-11	METAL CHIP	220K	5%	1/10W
R826	1-216-843-11	METAL CHIP	68K	5%	1/10W
R828	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R830	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R833	1-249-417-11	CARBON	1K	5%	1/4W
R834	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R835	1-216-845-11	METAL CHIP	100K	5%	1/10W
R836	1-216-845-11	METAL CHIP	100K	5%	1/10W
R837	1-216-821-11	METAL CHIP	1K	5%	1/10W
R839	1-216-809-11	METAL CHIP	100	5%	1/10W
R840	1-216-809-11	METAL CHIP	100	5%	1/10W
R841	1-216-809-11	METAL CHIP	100	5%	1/10W
R843	1-216-809-11	METAL CHIP	100	5%	1/10W
R846	1-216-845-11	METAL CHIP	100K	5%	1/10W
R847	1-216-845-11	METAL CHIP	100K	5%	1/10W
R848	1-216-845-11	METAL CHIP	100K	5%	1/10W
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R853	1-216-864-11	SHORT CHIP	0		
R854	1-216-864-11	SHORT CHIP	0		
R860	1-216-845-11	METAL CHIP	100K	5%	1/10W
R873	1-216-845-11	METAL CHIP	100K	5%	1/10W
R901	1-216-845-11	METAL CHIP	100K	5%	1/10W
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R912	1-249-417-11	CARBON	1K	5%	1/4W
R913	1-216-821-11	METAL CHIP	1K	5%	1/10W
R916	1-216-864-11	SHORT CHIP	0		
R917	1-249-421-11	CARBON	2.2K	5%	1/4W
R925	1-216-845-11	METAL CHIP	100K	5%	1/10W
R927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R928	1-249-421-11	CARBON	2.2K	5%	1/4W
R931	1-216-073-00	RES-CHIP	10K	5%	1/10W
R932	1-216-073-00	RES-CHIP	10K	5%	1/10W
R936	1-216-864-11	SHORT CHIP	0		

< SWITCH >

S800	1-571-850-51	SWITCH, SLIDE (FREQUENCY SELECT)
S802	1-762-638-21	SWITCH, TACTILE (RESET)

< TUNER >

TUX601	A-3220-961-A	TUNER UNIT (TUX-032)

< VIBRATOR >

X800	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)
X801	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)

****

SENSOR BOARD

****

< SWITCH >

SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)

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CDX-V3800

SERVO

Ref. No.	Part No.	Description			Remark
	A-1107-620-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C102	1-104-609-11	ELECT CHIP	100uF	20%	4V
C103	1-126-208-21	ELECT CHIP	47uF	20%	4V
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C161	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C162	1-164-378-11	CERAMIC CHIP	30PF	5%	50V
C163	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C164	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C165	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C166	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C180	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C182	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C183	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C201	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C301	1-126-208-21	ELECT CHIP	47uF	20%	4V
C302	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C312	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C313	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C400	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-104-609-11	ELECT CHIP	100uF	20%	4V
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C404	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C405	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C406	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C407	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C410	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C501	1-104-609-11	ELECT CHIP	100uF	20%	4V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C503	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C504	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-104-609-11	ELECT CHIP	100uF	20%	4V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C509	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-126-602-11	ELECT CHIP	3.3uF	20%	50V
C512	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-100-381-11	ELECT CHIP	10uF	20%	16V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-104-609-11	ELECT CHIP	100uF	20%	4V
C518	1-104-609-11	ELECT CHIP	100uF	20%	4V
C519	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C521	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C531	1-126-208-21	ELECT CHIP	47uF	20%	4V
C540	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C541	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C542	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C543	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C544	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C545	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C546	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C547	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
C548	1-164-854-11	CERAMIC CHIP	15PF	5%	50V
C551	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C600	1-128-995-21	ELECT CHIP	100uF	20%	10V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C705	1-126-208-21	ELECT CHIP	47uF	20%	4V
C706	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C708	1-126-208-21	ELECT CHIP	47uF	20%	4V
C709	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN1	1-784-876-21	CONNECTOR, FFC (LIF(NON-ZIF)) 26P			
* CN401	1-695-320-21	PIN, CONNECTOR (1.5mm) (SMD) 2P			
CN500	1-815-016-21	CONNECTOR, FFC/FPC (ZIF) 16P			
		< DIODE >			
D101	8-719-053-18	DIODE 1SR154-400TE-25			
D906	6-500-812-01	DIODE RLZTE-113.6B			
D907	8-719-083-57	DIODE UDZSTE-173.6B			
D909	8-719-083-57	DIODE UDZSTE-173.6B			
D910	8-719-083-57	DIODE UDZSTE-173.6B			
		< FERRITE BEAD >			
FB501	1-216-864-11	SHORT CHIP 0			
FB502	1-414-595-11	INDUCTOR, FERRITE BEAD			
FB503	1-469-777-21	INDUCTOR, FERRITE BEAD			
FB504	1-216-864-11	SHORT CHIP 0			
		< IC >			
IC100	6-706-599-01	IC SPCA716A-HL111			
IC200	6-805-375-01	IC M29W400DB55N6E-V200			
IC300	6-705-992-11	IC HY57V161610ETP-7DR			
IC400	6-706-600-01	IC SPCA717A-HL211			
IC500	6-706-601-01	IC BU9536KS2			
IC600	6-705-002-01	IC BA5966FP-FE2			
IC700	6-707-146-01	IC WM8726GED/R			
		< COIL >			
L401	1-414-404-41	INDUCTOR 100uH			
		< TRANSISTOR >			
Q501	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q502	8-729-928-90	TRANSISTOR DTC114EE			
		< RESISTOR >			
R101	1-218-933-11	RES-CHIP 22		5%	1/16W
R102	1-218-933-11	RES-CHIP 22		5%	1/16W

Ref. No.	Part No.	Description			Remark
R103	1-218-933-11	RES-CHIP	22	5%	1/16W
R104	1-218-933-11	RES-CHIP	22	5%	1/16W
R105	1-218-933-11	RES-CHIP	22	5%	1/16W
R106	1-218-941-81	RES-CHIP	100	5%	1/16W
R107	1-218-941-81	RES-CHIP	100	5%	1/16W
R108	1-218-941-81	RES-CHIP	100	5%	1/16W
R109	1-218-933-11	RES-CHIP	22	5%	1/16W
R110	1-218-933-11	RES-CHIP	22	5%	1/16W
R111	1-218-933-11	RES-CHIP	22	5%	1/16W
R112	1-218-933-11	RES-CHIP	22	5%	1/16W
R113	1-218-933-11	RES-CHIP	22	5%	1/16W
R114	1-218-933-11	RES-CHIP	22	5%	1/16W
R161	1-218-941-81	RES-CHIP	100	5%	1/16W
R162	1-218-941-81	RES-CHIP	100	5%	1/16W
R163	1-218-935-11	RES-CHIP	33	5%	1/16W
R164	1-220-199-81	RES-CHIP	24K	5%	1/16W
R165	1-218-935-11	RES-CHIP	33	5%	1/16W
R166	1-218-941-81	RES-CHIP	100	5%	1/16W
R167	1-218-973-11	RES-CHIP	47K	5%	1/16W
R168	1-218-941-81	RES-CHIP	100	5%	1/16W
R169	1-218-973-11	RES-CHIP	47K	5%	1/16W
R170	1-218-941-81	RES-CHIP	100	5%	1/16W
R171	1-218-973-11	RES-CHIP	47K	5%	1/16W
R172	1-218-941-81	RES-CHIP	100	5%	1/16W
R173	1-218-973-11	RES-CHIP	47K	5%	1/16W
R175	1-218-973-11	RES-CHIP	47K	5%	1/16W
R176	1-218-945-11	RES-CHIP	220	5%	1/16W
R177	1-218-973-11	RES-CHIP	47K	5%	1/16W
R178	1-218-945-11	RES-CHIP	220	5%	1/16W
R180	1-218-953-11	RES-CHIP	1K	5%	1/16W
R181	1-218-973-11	RES-CHIP	47K	5%	1/16W
R311	1-218-933-11	RES-CHIP	22	5%	1/16W
R312	1-218-933-11	RES-CHIP	22	5%	1/16W
R401	1-208-675-11	METAL CHIP	470	0.5%	1/16W
R402	1-218-971-11	RES-CHIP	33K	5%	1/16W
R403	1-220-169-11	RES-CHIP	75	5%	1/16W
R404	1-218-989-11	RES-CHIP	1M	5%	1/16W
R405	1-218-948-11	RES-CHIP	390	5%	1/16W
R501	1-218-967-11	RES-CHIP	15K	5%	1/16W
R502	1-218-967-11	RES-CHIP	15K	5%	1/16W
R503	1-220-205-11	RES-CHIP	75K	5%	1/16W
R504	1-220-205-11	RES-CHIP	75K	5%	1/16W
R505	1-218-979-11	RES-CHIP	150K	5%	1/16W
R506	1-218-953-11	RES-CHIP	1K	5%	1/16W
R507	1-218-977-11	RES-CHIP	100K	5%	1/16W
R508	1-218-929-11	RES-CHIP	10	5%	1/16W
R509	1-218-929-11	RES-CHIP	10	5%	1/16W
R511	1-218-949-11	RES-CHIP	470	5%	1/16W
R512	1-218-970-11	RES-CHIP	27K	5%	1/16W
R513	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R514	1-218-969-11	RES-CHIP	22K	5%	1/16W
R515	1-218-983-11	RES-CHIP	330K	5%	1/16W
R516	1-218-971-11	RES-CHIP	33K	5%	1/16W
R541	1-218-951-11	RES-CHIP	680	5%	1/16W
R542	1-218-989-11	RES-CHIP	1M	5%	1/16W
R543	1-218-969-11	RES-CHIP	22K	5%	1/16W
R544	1-220-205-11	RES-CHIP	75K	5%	1/16W
R545	1-218-970-11	RES-CHIP	27K	5%	1/16W
R546	1-218-953-11	RES-CHIP	1K	5%	1/16W
R547	1-243-975-81	METAL CHIP	4.7M	5%	1/16W
R548	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R551	1-218-941-81	RES-CHIP	100	5%	1/16W
R600	1-218-990-11	SHORT CHIP	0		
R601	1-218-965-11	RES-CHIP	10K	5%	1/16W
R602	1-218-971-11	RES-CHIP	33K	5%	1/16W
R603	1-218-965-11	RES-CHIP	10K	5%	1/16W
R604	1-218-967-11	RES-CHIP	15K	5%	1/16W
R605	1-218-969-11	RES-CHIP	22K	5%	1/16W
R606	1-218-969-11	RES-CHIP	22K	5%	1/16W
R621	1-218-967-11	RES-CHIP	15K	5%	1/16W
R622	1-218-990-11	SHORT CHIP	0		
R623	1-218-969-11	RES-CHIP	22K	5%	1/16W
R624	1-218-968-11	RES-CHIP	18K	5%	1/16W
R625	1-218-968-11	RES-CHIP	18K	5%	1/16W
R626	1-218-969-11	RES-CHIP	22K	5%	1/16W
R627	1-218-990-11	SHORT CHIP	0		
R629	1-218-990-11	SHORT CHIP	0		
R630	1-218-965-11	RES-CHIP	10K	5%	1/16W
R631	1-218-965-11	RES-CHIP	10K	5%	1/16W
R632	1-218-990-11	SHORT CHIP	0		
R701	1-218-941-81	RES-CHIP	100	5%	1/16W
R702	1-218-945-11	RES-CHIP	220	5%	1/16W
R703	1-218-945-11	RES-CHIP	220	5%	1/16W
R704	1-218-945-11	RES-CHIP	220	5%	1/16W
R707	1-218-941-81	RES-CHIP	100	5%	1/16W
R708	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R709	1-218-941-81	RES-CHIP	100	5%	1/16W

< NETWORK RESISTOR >

RB101	1-234-370-21	RES, NETWORK 22X4 (1005)
RB102	1-234-370-21	RES, NETWORK 22X4 (1005)
RB103	1-234-370-21	RES, NETWORK 22X4 (1005)
RB104	1-234-370-21	RES, NETWORK 22X4 (1005)
RB105	1-234-370-21	RES, NETWORK 22X4 (1005)
RB106	1-234-370-21	RES, NETWORK 22X4 (1005)
RB107	1-234-370-21	RES, NETWORK 22X4 (1005)
RB108	1-234-370-21	RES, NETWORK 22X4 (1005)
RB109	1-234-370-21	RES, NETWORK 22X4 (1005)
RB110	1-234-372-21	RES, NETWORK 100X4 (1005)
RB111	1-234-372-21	RES, NETWORK 100X4 (1005)
RB112	1-234-370-21	RES, NETWORK 22X4 (1005)
RB113	1-234-370-21	RES, NETWORK 22X4 (1005)
RB301	1-234-370-21	RES, NETWORK 22X4 (1005)

< SWITCH >

SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)

< VIBRATOR >

X401	1-795-613-11	VIBRATOR, CRYSTAL (27MHz)
X541	1-813-565-11	VIBRATOR, CRYSTAL (16.934MHz)

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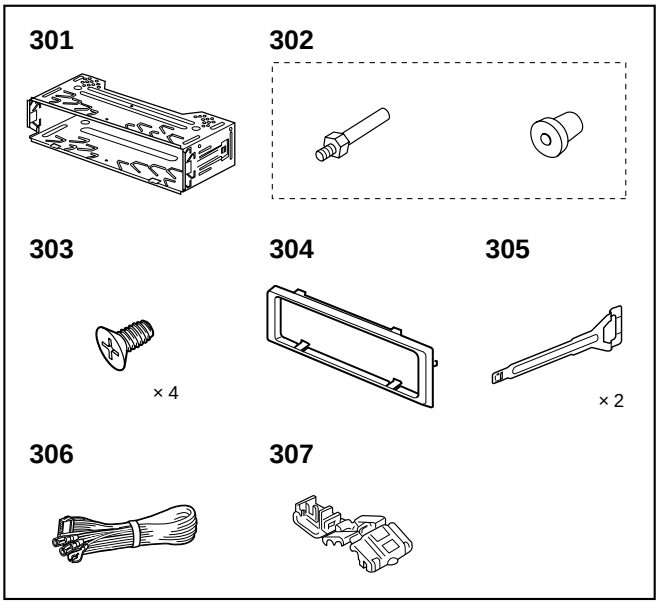
Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
6	1-829-847-11	CABLE, FLAT (FFC) 26P	
8	1-792-194-61	CORD (WITH CONNECTOR) (POWER)	
9	1-829-836-12	CORD, CONNECTION (VIDEO OUT)	
⚠153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-1075-787-A	CHASSIS (OP) SUB ASSY (including M901)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
M903	A-1075-792-A	MOTOR ASSY, LE (LOADING)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
**********			
		ACCESSORIES	
		**********	
	1-479-077-81	REMOTE COMMANDER (RM-X158)	
	2-548-729-01	LID, BATTERY CASE (for RM-X158)	
	2-582-332-11	MANUAL, INSTRUCTION (ENGLISH, SIMPLIFIED CHINESE,ARABIC)	
	2-582-333-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SIMPLIFIED CHINESE,ARABIC)	
	X-3378-390-3	CASE ASSY (for FRONT PANEL)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
301	X-3382-647-1	FRAME ASSY, FITTING	
302	X-3366-405-1	SCREW ASSY (EXP), FITTING	
303	3-934-325-01	SCREW (+K 5X8 TP)	
304	3-260-282-01	COLLAR	
305	3-246-471-01	KEY (FRAME)	
306	1-792-194-61	CORD (WITH CONNECTOR) (POWER)	
307	1-562-593-11	CONNECTOR (CL-2218T)	



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

CDX-V3800

SONY

E Model
Chinese Model

SERVICE MANUAL

Ver. 1.2 2005. 11

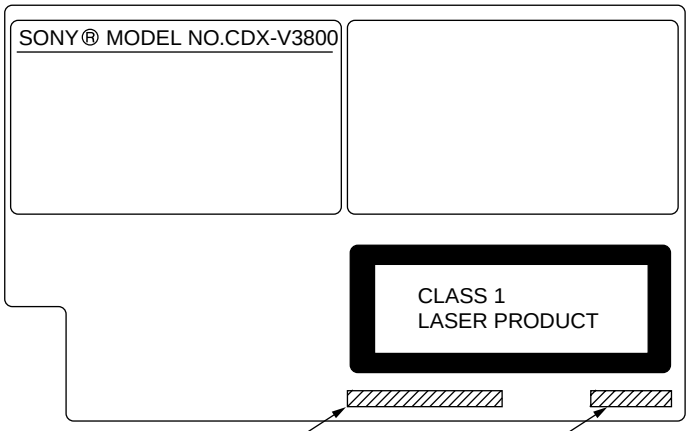
SUPPLEMENT-1

File this supplement with the service manual.

Subject : Production country change.

The CDX-V3800 model has been changed in the production country to Thailand from Korea.
This service manual, SUPPLEMENT-1 only contains the change.
When servicing and inspecting, check the Model Number Label to see if the model is made in Thailand or Korea.

DISCRIMINATION



MADE IN KOREA
MADE IN THAILAND

KOREA E model : 2-581-452-0□
THAILAN E model : 2-596-984-0□
THAILAND Chinese model : 2-662-487-0□

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SECTION 1
DIAGRAMS

• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Main (1/3), (2/3), (3/3) sections
  no mark : FM
  ( ) : AM
  < > : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY
  ⇨ : FM
  ➡ : AM

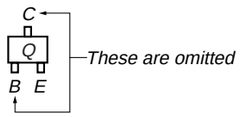
For printed wiring boards.

Note:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.



These are omitted

These are omitted

These are omitted

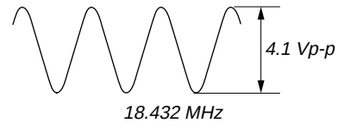
• WAVEFORMS

— Main Board —

① IC801 ㊽ (XOA)

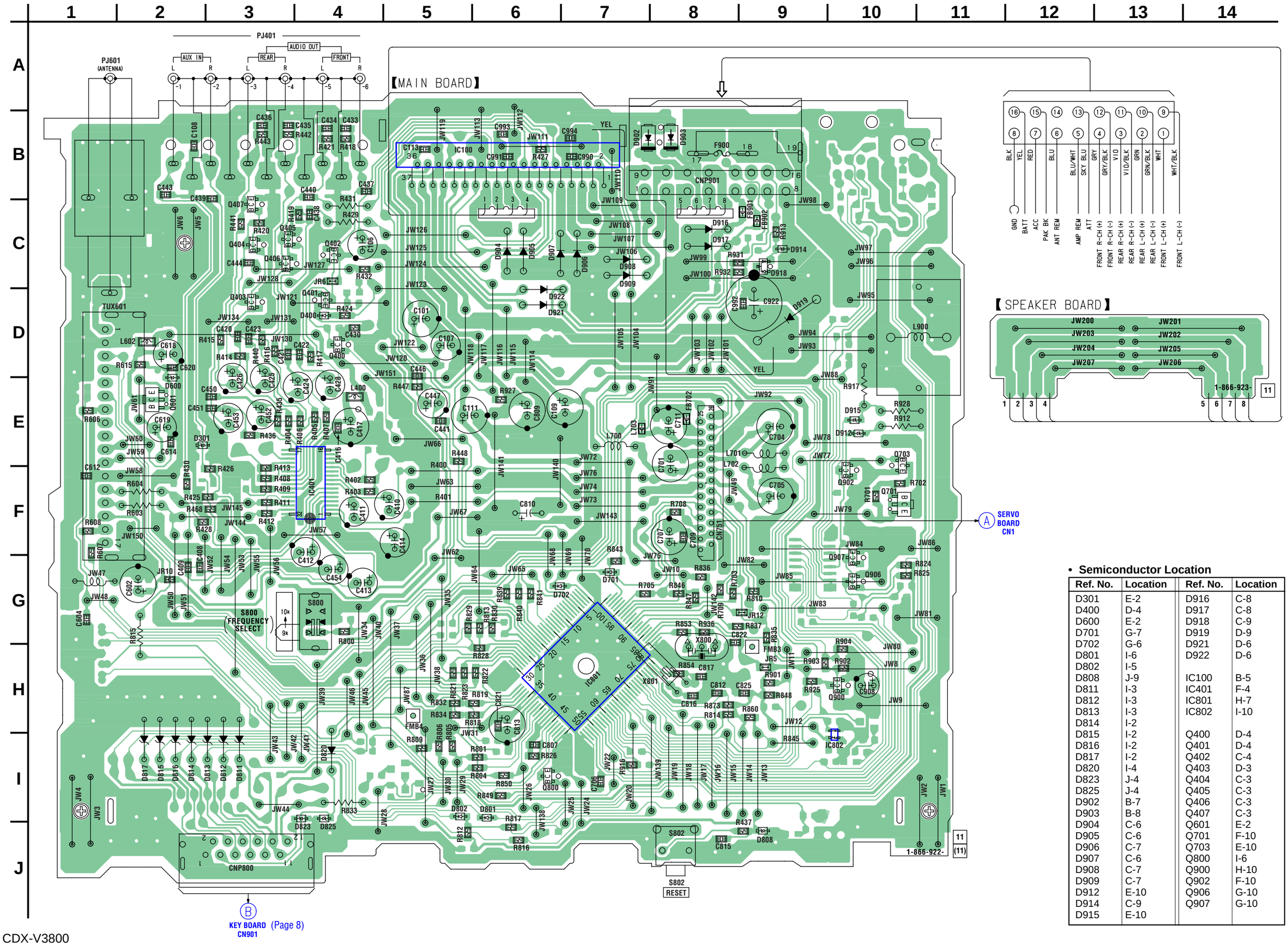
0.2 V/DIV, 20 µsec/DIV

② IC801 ㊾ (X0)



0.5 V/DIV, 0.1 µsec/DIV

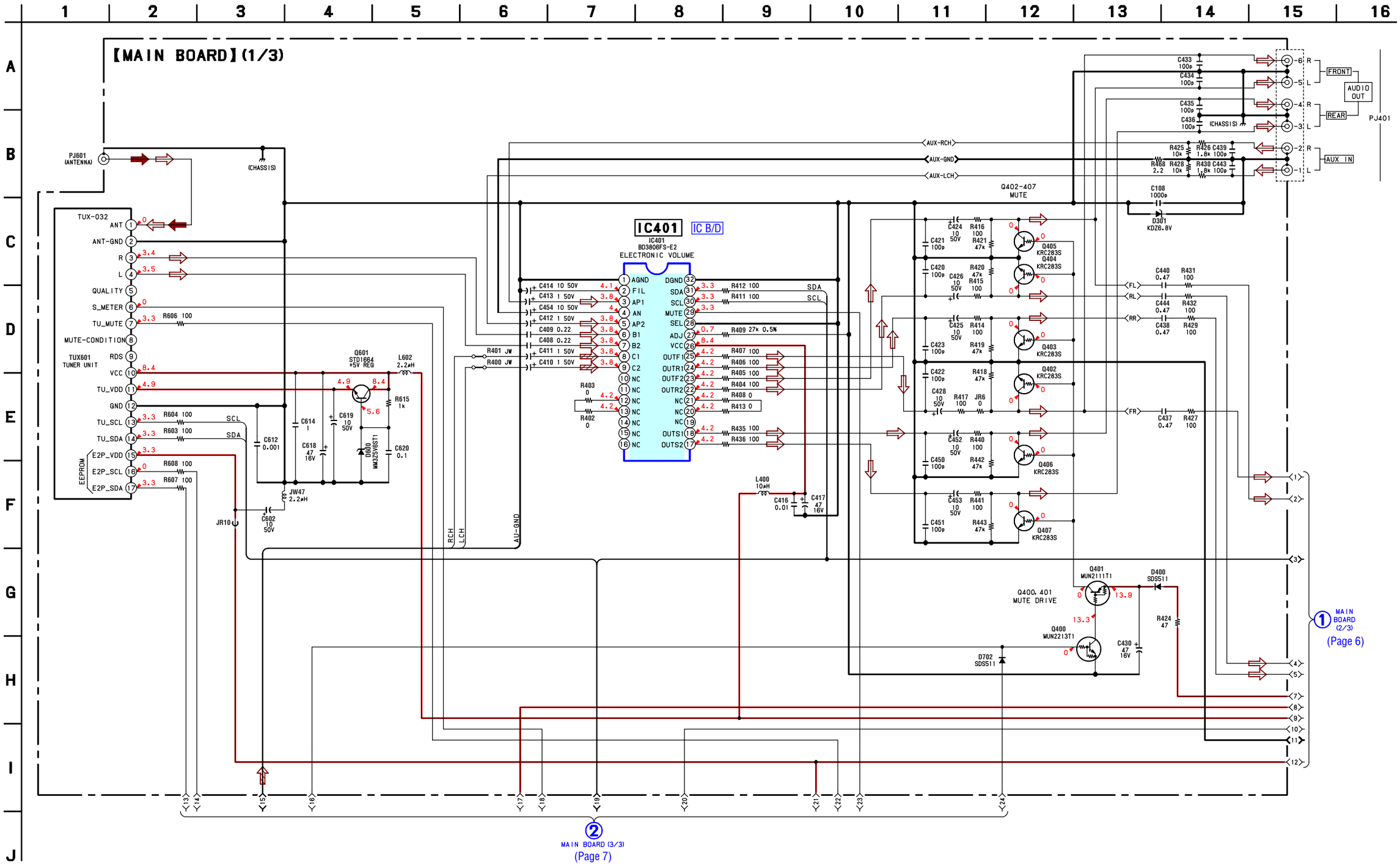
1-1. PRINTED WIRING BOARDS — MAIN SECTION — : Uses unleaded solder.



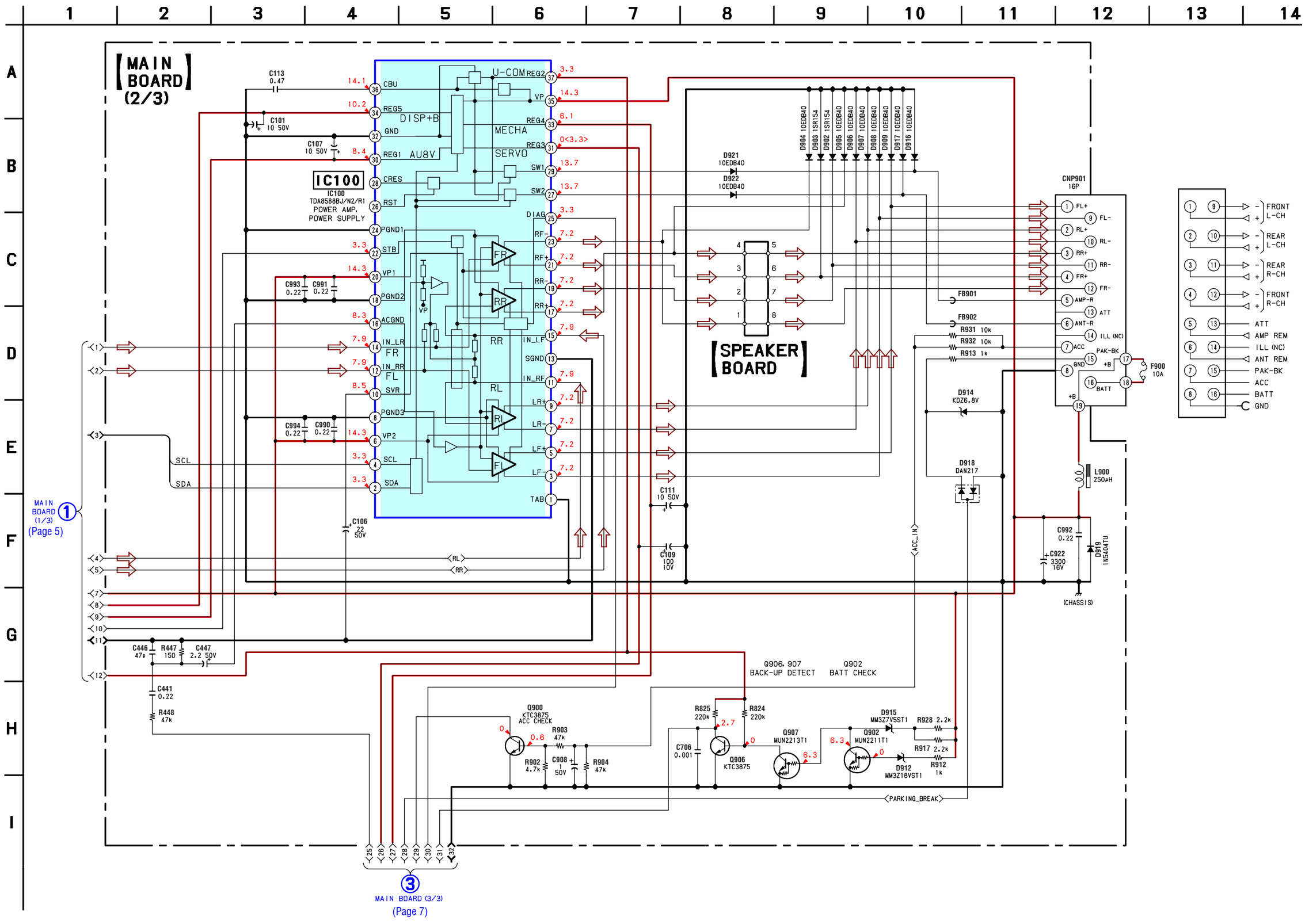
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D301	E-2	D916	C-8
D400	D-4	D917	C-8
D600	E-2	D918	C-9
D701	G-7	D919	D-9
D702	G-6	D921	D-6
D801	I-6	D922	D-6
D802	I-5		
D808	J-9	IC100	B-5
D811	I-3	IC401	F-4
D812	I-3	IC801	H-7
D813	I-3	IC802	I-10
D814	I-2		
D815	I-2	Q400	D-4
D816	I-2	Q401	D-4
D817	I-2	Q402	C-4
D820	I-4	Q403	D-3
D823	J-4	Q404	C-3
D825	J-4	Q405	C-3
D902	B-7	Q406	C-3
D903	B-8	Q407	C-3
D904	C-6	Q601	E-2
D905	C-6	Q701	F-10
D906	C-7	Q703	E-10
D907	C-6	Q800	I-6
D908	C-7	Q900	H-10
D909	C-7	Q902	F-10
D912	E-10	Q906	G-10
D914	C-9	Q907	G-10
D915	E-10		

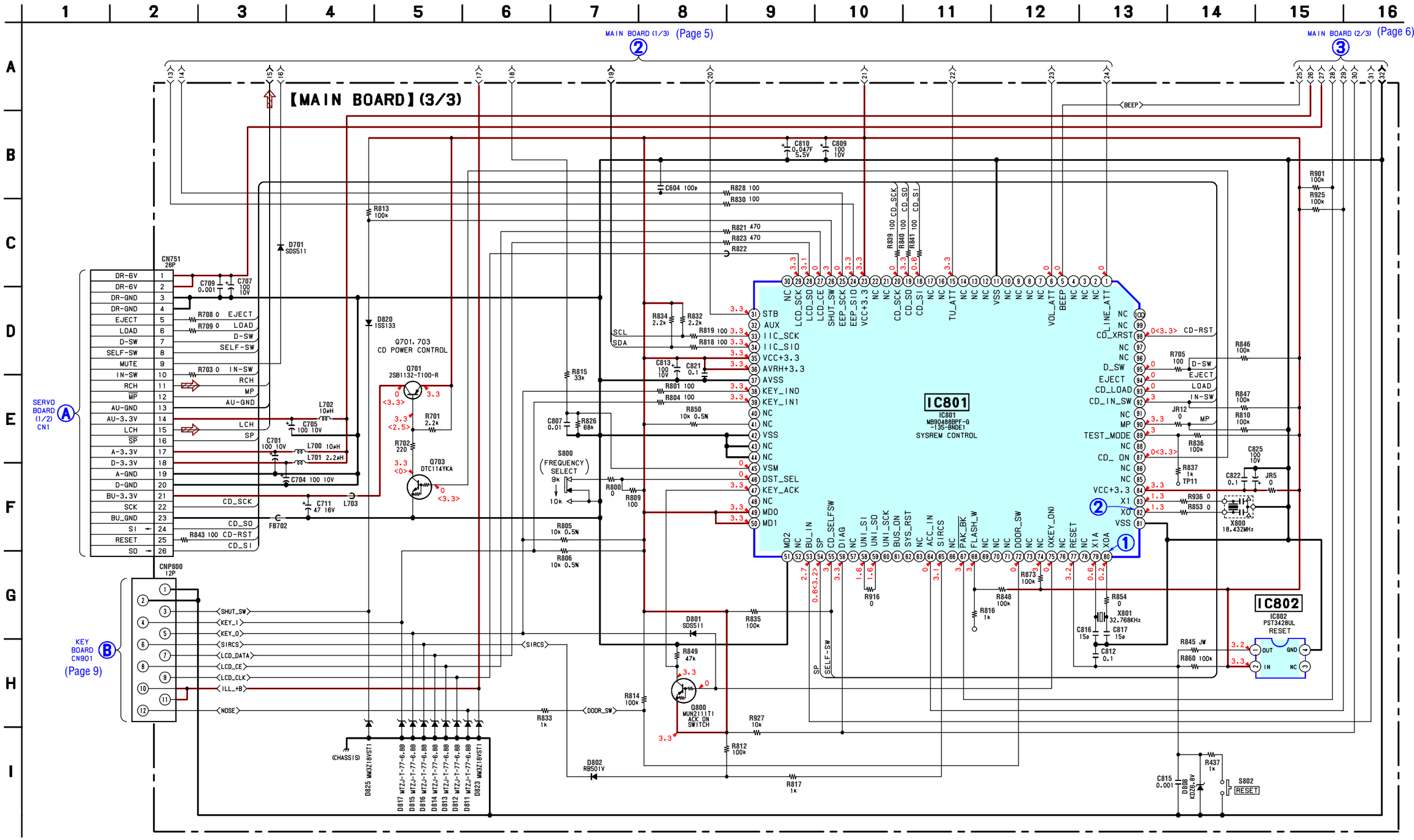
1-2. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 10 for IC Block Diagrams.



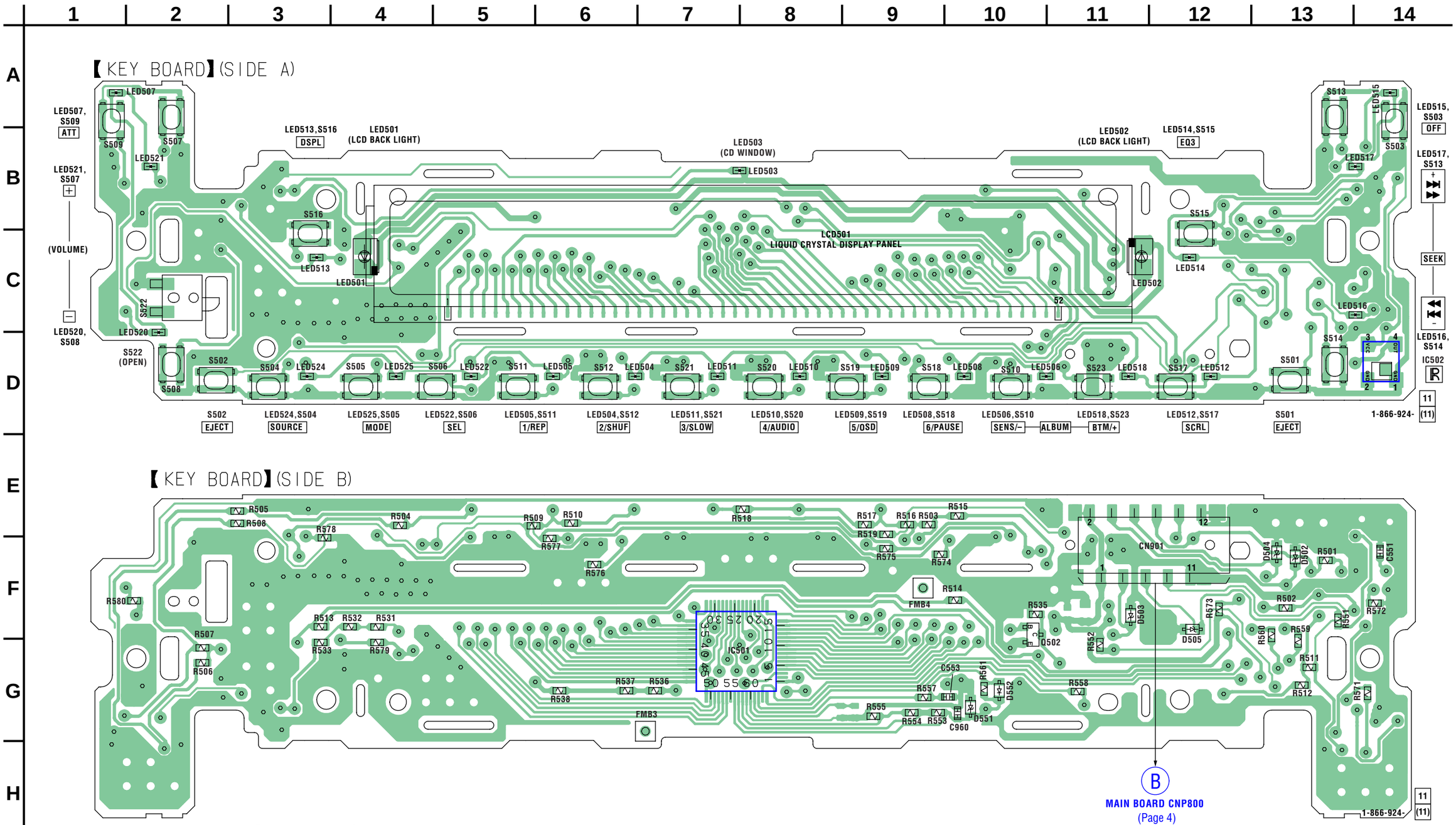
1-3. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



1-4. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 3 for Waveforms.



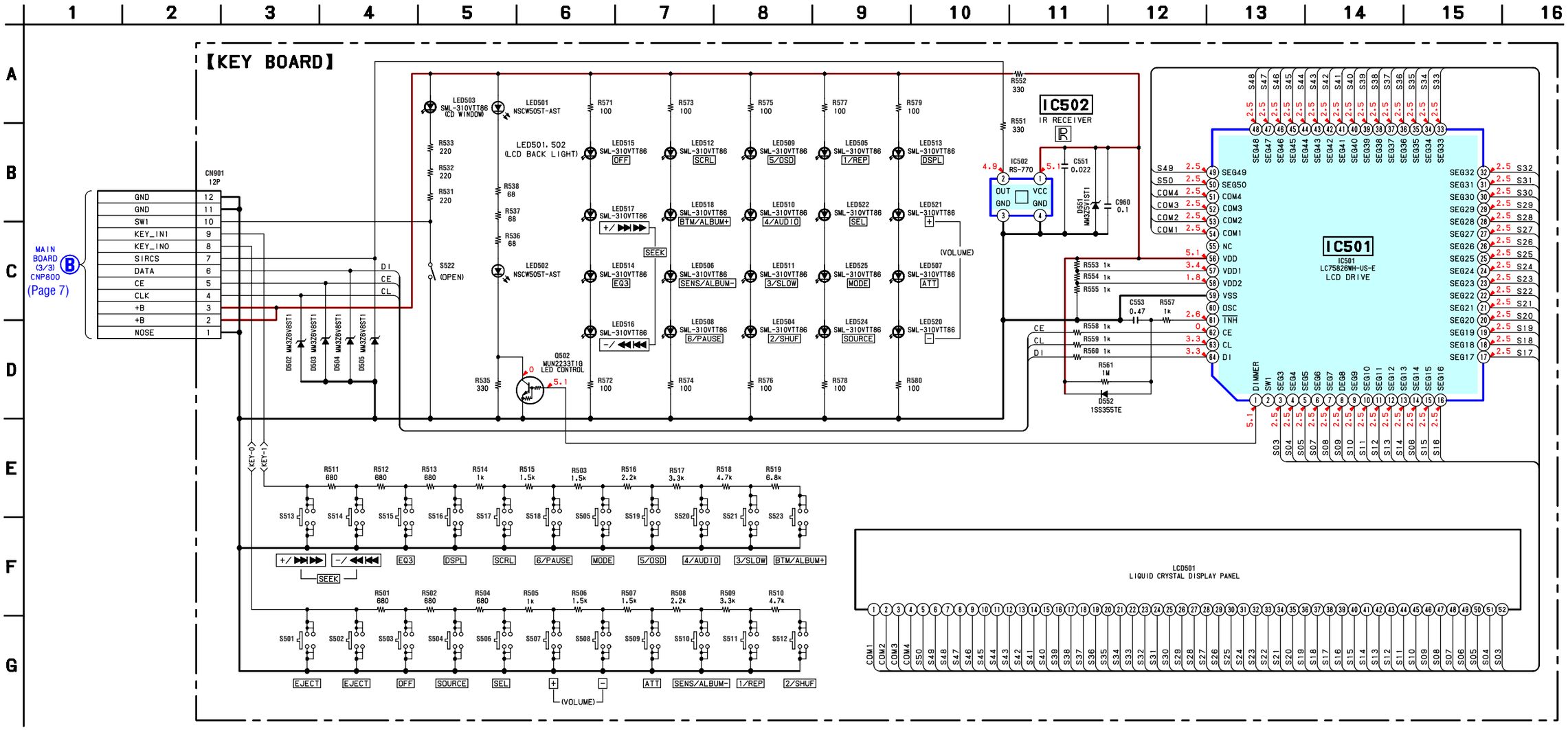
1-5. PRINTED WIRING BOARD — KEY SECTION — : Uses unleaded solder.



• **Semiconductor Location**

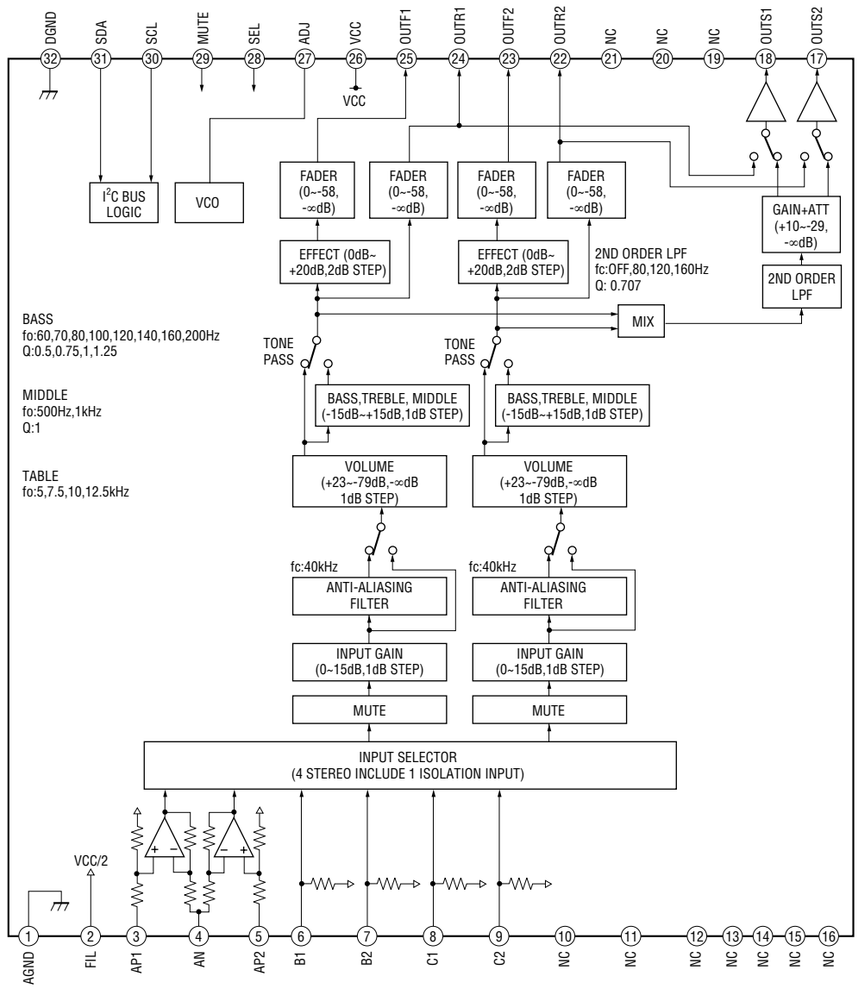
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D502	F-13	LED503	B-8	LED515	A-14
D503	F-11	LED504	D-6	LED516	C-14
D504	F-13	LED505	D-6	LED517	B-14
D505	F-12	LED506	D-10	LED518	D-11
D551	G-10	LED507	A-1	LED520	C-2
D552	G-10	LED508	D-10	LED521	B-2
		LED509	D-9	LED522	D-5
IC501	G-7	LED510	D-8	LED524	D-3
IC502	D-14	LED511	D-7	LED525	D-4
		LED512	D-12		
LED501	C-4	LED513	C-3	Q502	G-10
LED502	C-11	LED514	C-12		

1-6. SCHEMATIC DIAGRAM — KEY SECTION —



• IC BLOCK DIAGRAMS

IC401 BD3806FS-E2 (MAIN Board (1/3))

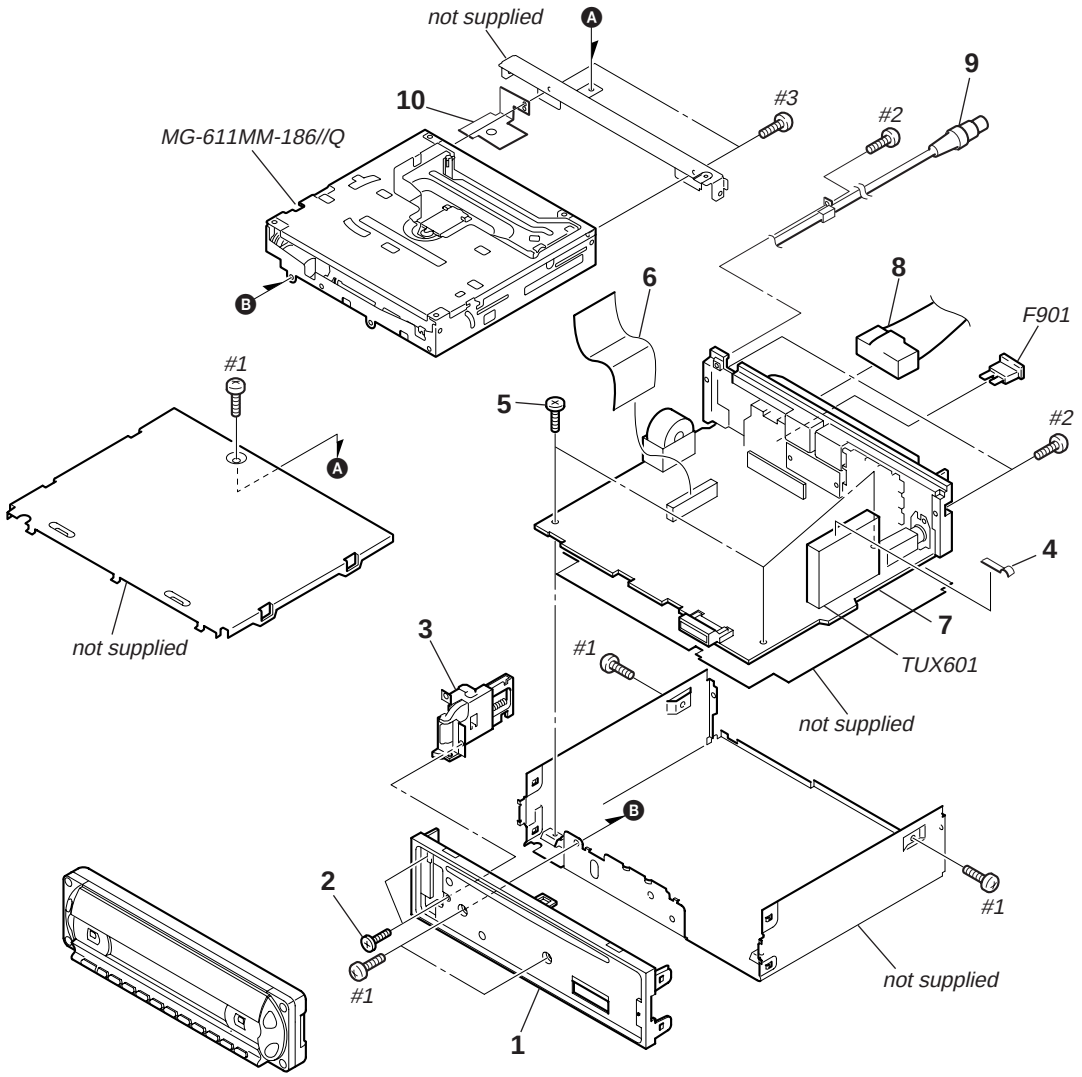


SECTION 2
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

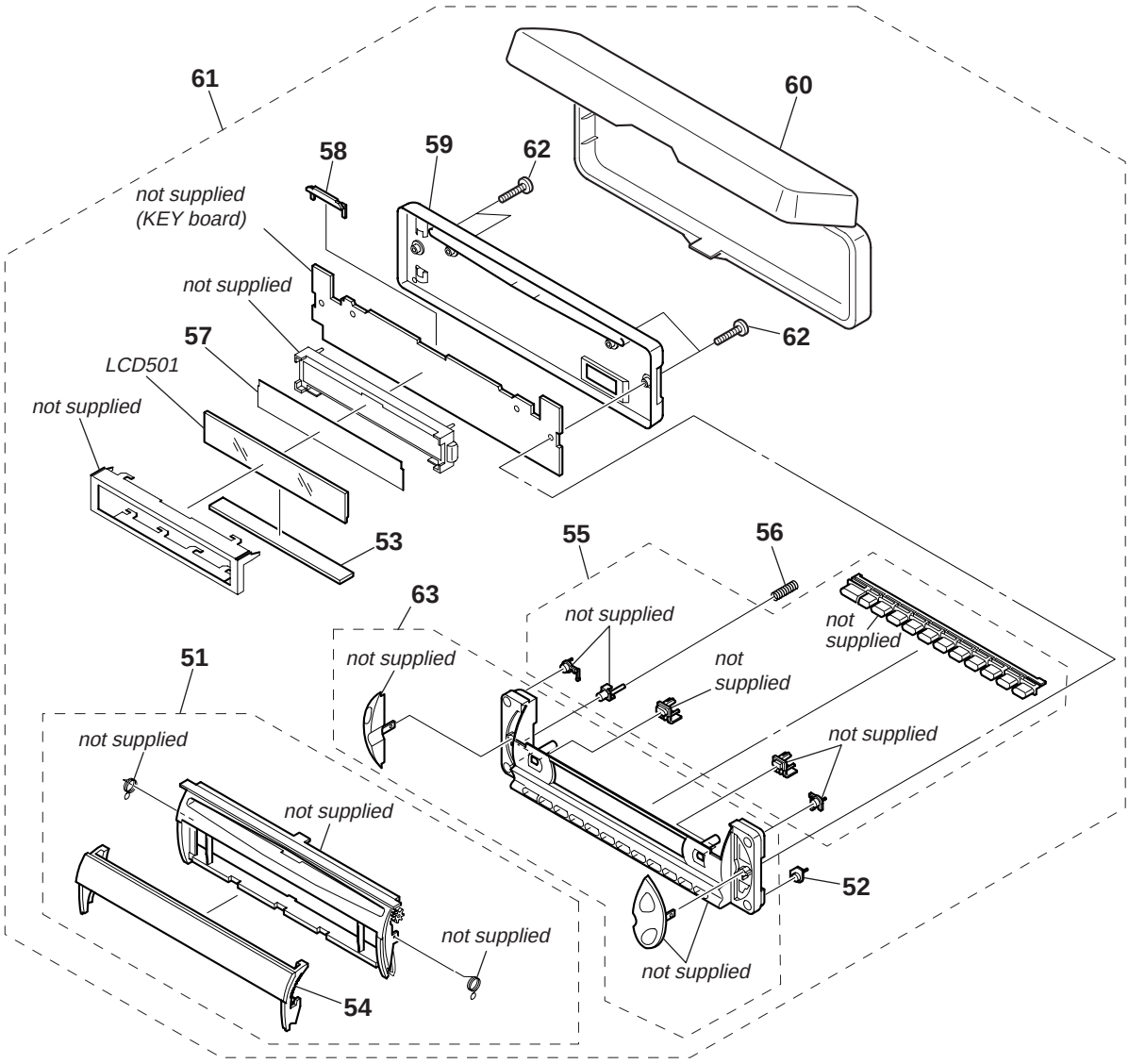
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

2-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-3384-176-3	PANEL ASSY, SUB	
2	3-042-244-11	SCREW (T)	
3	X-3383-739-1	LOCK ASSY (S)	
4	2-021-848-01	SHEET (TU), GROUND	
5	2-050-124-01	SCREW +BTT 2.6X5	
6	1-829-847-11	CABLE, FLAT (FFC) 26P	
7	A-1115-219-A	MAIN BOARD, COMPLETE	
8	1-792-194-61	CORD (WITH CONNECTOR) (POWER)	
9	1-829-836-12	CORD, CONNECTION (VIDEO) (VIDEO OUT)	
10	2-596-791-01	SHEET, SHIELD	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TUX601	A-3220-961-A	TUNER UNIT (TUX-032)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#3	7-685-790-01	SCREW +PTT 2.6X4 (S)	

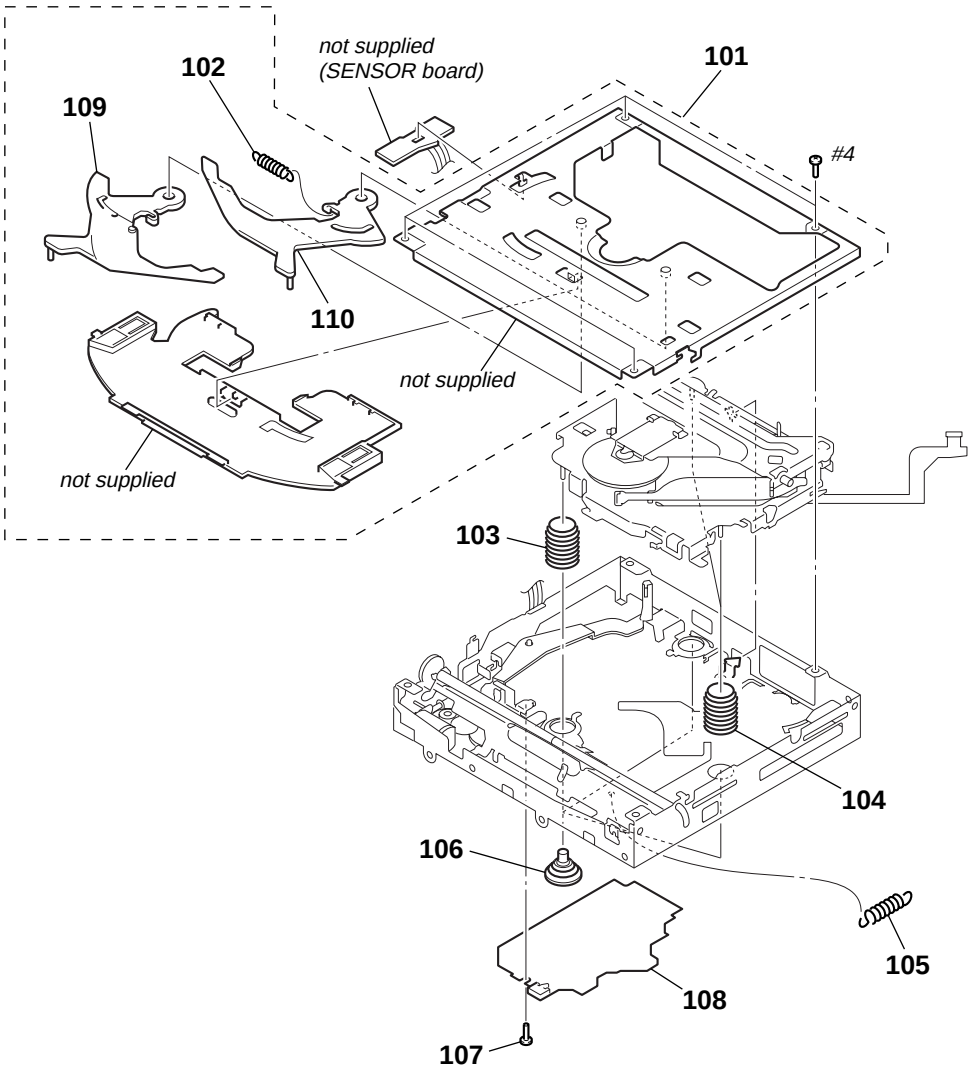
2-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-1122-750-A	RETRACTABLE ASSY	
52	3-258-947-02	FILTER (IR)	
53	1-780-096-11	CONDUCTIVE BOARD, CONNECTION	
54	X-2059-418-1	SHUTTER (SV) ASSY	
55	X-2059-416-1	BUTTON ASSY (SV)	
56	3-246-479-01	SPRING (RELEASE)	
57	2-515-402-01	SHEET (ILLUMINATOR)	

Ref. No.	Part No.	Description	Remark
58	2-188-139-01	PLATE (CD), LIGHT GUIDE	
59	3-258-937-01	PANEL, FRONT BACK	
60	X-3385-071-1	CASE ASSY (for FRONT PANEL)	
61	A-1115-222-A	PANEL OVERALL ASSY, FRONT	
62	3-250-543-21	SCREW (+B P-TITE M2)	
63	X-2059-417-1	PANEL ASSY, FRONT (SV)	
LCD501	1-805-451-11	DISPLAY PANEL, LIQUID CRYSTAL	

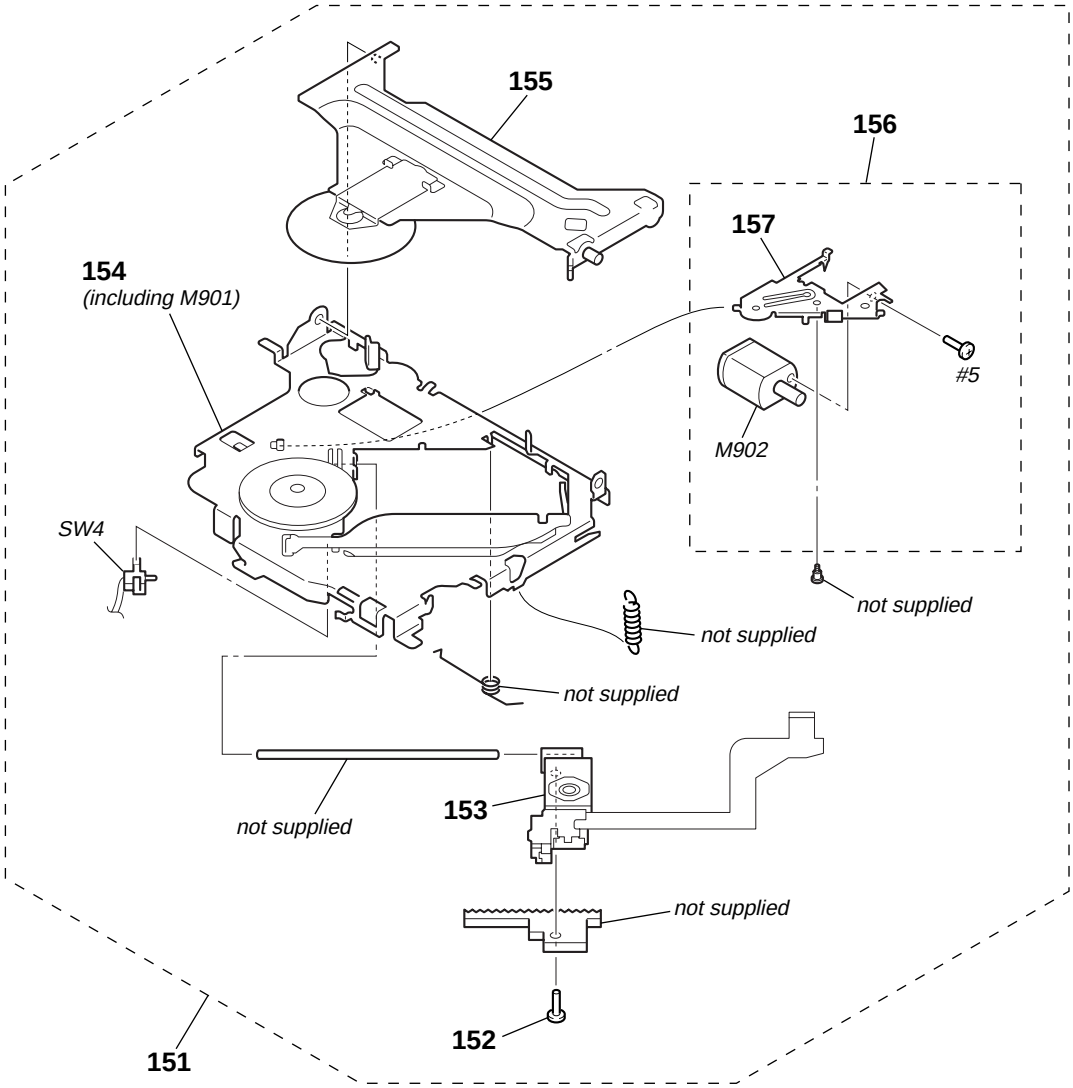
2-3. CD MECHANISM SECTION (1)
(MG-611MM-186//Q)



Ref. No.	Part No.	Description	Remark
101	A-3372-444-A	CHASSIS (T) SUB ASSY	
102	3-253-729-11	SPRING (LTR), TENSION COIL	
103	3-257-892-12	SPRING (DAMPER), COIL	
104	3-257-892-01	SPRING (DAMPER), COIL	
105	2-345-767-11	SPRING (KF60), TENSION	
106	3-259-033-01	DAMPER (S)	

Ref. No.	Part No.	Description	Remark
107	2-587-505-01	SCREW	
108	A-1107-620-A	SERVO BOARD, COMPLETE	
109	X-3384-088-2	LEVER (L) ASSY	
110	X-3384-089-2	LEVER (R) ASSY	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

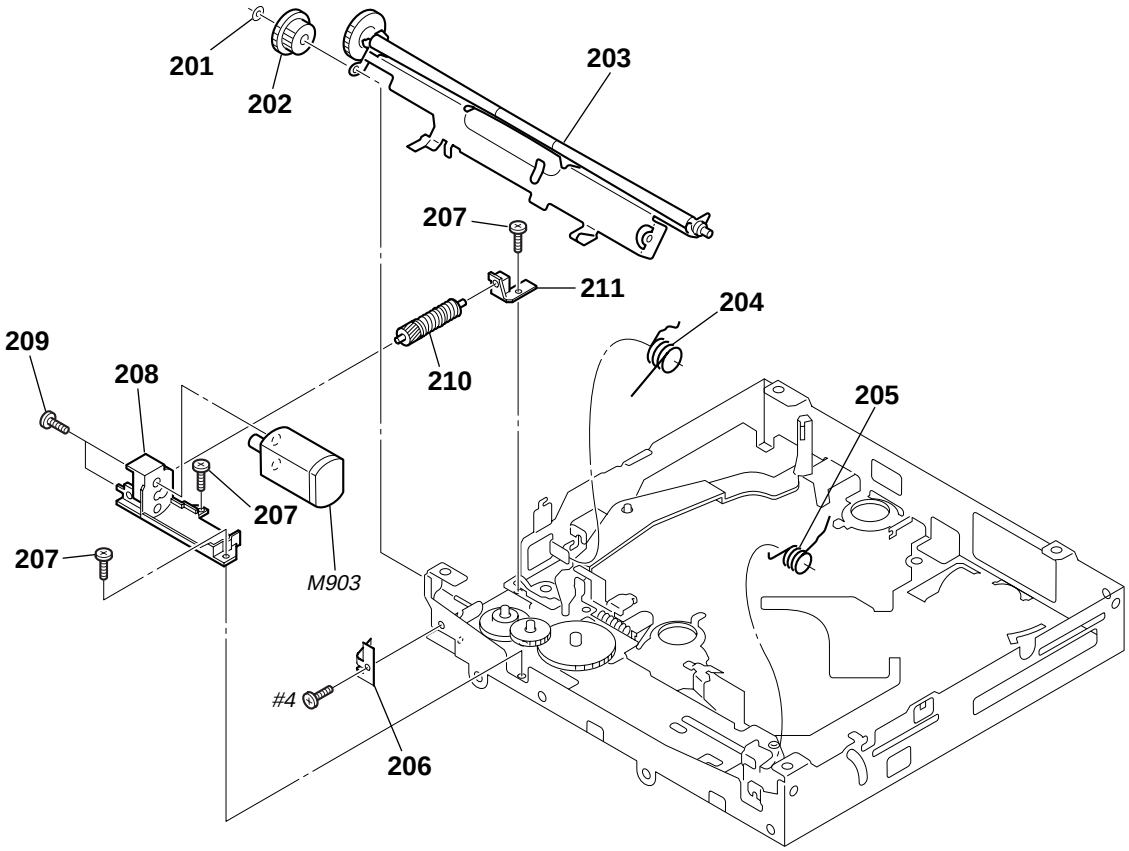
2-4. CD MECHANISM SECTION (2)
(MG-611MM-186//Q)



Ref. No.	Part No.	Description	Remark
151	A-1075-644-A	CHASSIS (OP) COMPLETE ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING	
⚠153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-1075-645-A	CHASSIS (OP) SUB ASSY (including M901)	
155	A-3372-449-A	ARM SUB ASSY, CHUCKING	

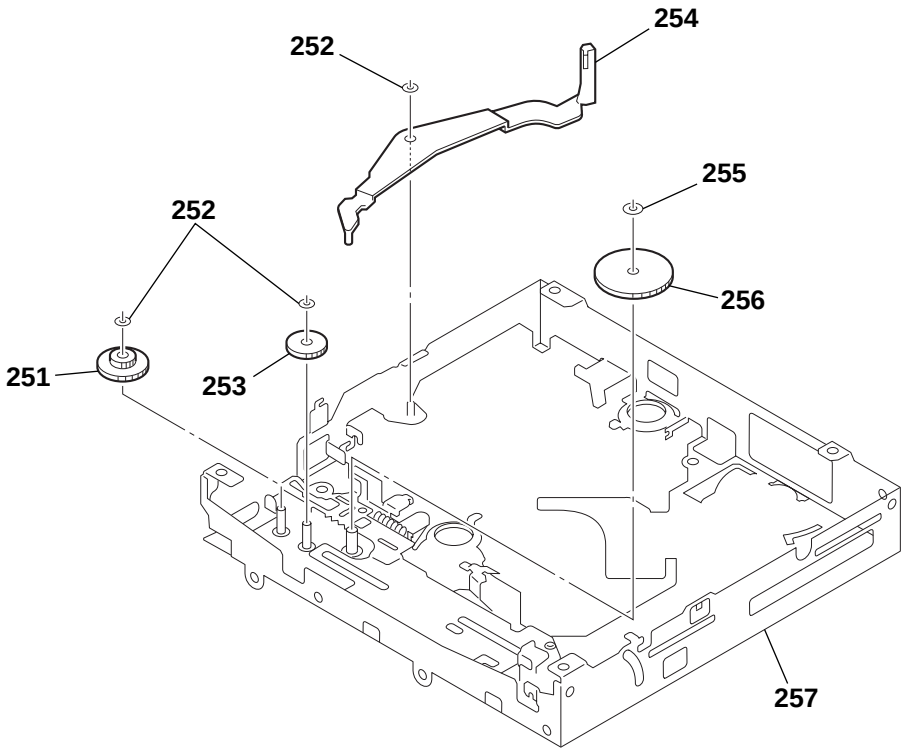
Ref. No.	Part No.	Description	Remark
156	A-3372-446-A	LEVER (SL) SUB ASSY	
157	X-3384-090-2	LEVER (SL) ASSY	
M902	A-3372-447-A	MOTOR ASSY, SL (SLED)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

2-5. CD MECHANISM SECTION (3)
(MG-611MM-186//Q)



Ref. No.	Part No.	Description	Remark
201	3-348-993-01	WASHER	
202	2-186-699-01	GEAR (RA1)	
203	A-1075-641-B	ARM ASSY, ROLLER	
204	3-259-455-12	SPRING (RAL)	
205	3-253-713-11	SPRING (RAR)	
206	3-259-469-12	SPRING (LE), LEAF	
207	2-134-636-21	SCREW (M1.7X2.5)	
208	2-186-696-01	BRACKET (LEM-N)	
209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
210	A-1083-636-A	GEAR (LE) ASSY	
211	2-186-697-01	BEARING (LEB-N)	
M903	A-1075-643-A	MOTOR ASSY, LE (LOADING)	
#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

2-6. CD MECHANISM SECTION (4)
(MG-611MM-186//Q)



Ref. No.	Part No.	Description	Remark
251	2-186-700-01	GEAR (CHK1)	
252	3-344-223-01	WASHER	
253	3-259-470-11	GEAR (LE1)	
254	3-253-755-12	LEVER (D)	
255	2-630-962-01	WASHER (SLIT)	
* 256	2-590-545-01	GEAR (LE2-M)	
257	A-1075-640-B	CHASSIS (M) BLOCK ASSY	

SECTION 3
ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		**********			
	1-780-096-11	CONDUCTIVE BOARD, CONNECTION			
	2-515-402-01	SHEET (ILLUMINATOR)			
		< CAPACITOR >			
C551	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C553	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C960	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN901	1-794-312-11	PIN, CONNECTOR 12P			
		< DIODE >			
D502	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D503	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D504	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D505	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D551	8-719-976-99	DIODE DTZ5.1B			
D552	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC501	6-707-063-01	IC LC75826WH-US-E			
IC502	6-600-163-01	IC RS-770 (IR)			
		< LIQUID CRYSTAL DISPLAY >			
LCD501	1-805-451-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED501	6-501-062-01	LED NSCW505CT-AST (LCD BACK LIGHT)			
LED502	6-501-062-01	LED NSCW505CT-AST (LCD BACK LIGHT)			
LED503	8-719-053-09	LED SML-310VTT86 (CD WINDOW)			
LED504	8-719-053-09	LED SML-310VTT86 (2/SHUF)			
LED505	8-719-053-09	LED SML-310VTT86 (1/REP)			
LED506	8-719-053-09	LED SML-310VTT86 (SENS/ALBUM –)			
LED507	8-719-053-09	LED SML-310VTT86 (ATT)			
LED508	8-719-053-09	LED SML-310VTT86 (6/PAUSE)			
LED509	8-719-053-09	LED SML-310VTT86 (5/OSD)			
LED510	8-719-053-09	LED SML-310VTT86 (4/AUDIO)			
LED511	8-719-053-09	LED SML-310VTT86 (3/SLOW)			
LED512	8-719-053-09	LED SML-310VTT86 (SCRL)			
LED513	8-719-053-09	LED SML-310VTT86 (DSPL)			
LED514	8-719-053-09	LED SML-310VTT86 (EQ3)			
LED515	8-719-053-09	LED SML-310VTT86 (OFF)			
LED516	8-719-053-09	LED SML-310VTT86 (SEEK –/◀◀ I◀◀)			
LED517	8-719-053-09	LED SML-310VTT86 (SEEK +/▶▶I ▶▶)			
LED518	8-719-053-09	LED SML-310VTT86 (BTM/ALBUM +)			
LED520	8-719-053-09	LED SML-310VTT86 (VOL –)			
LED521	8-719-053-09	LED SML-310VTT86 (VOL +)			
LED522	8-719-053-09	LED SML-310VTT86 (SEL)			
LED524	8-719-053-09	LED SML-310VTT86 (SOURCE)			
LED525	8-719-053-09	LED SML-310VTT86 (MODE)			
		< TRANSISTOR >			
Q502	6-551-244-01	TRANSISTOR MUN2233T1G			
		< RESISTOR >			
R501	1-216-819-11	METAL CHIP	680	5%	1/10W
R502	1-216-819-11	METAL CHIP	680	5%	1/10W
R503	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R504	1-216-819-11	METAL CHIP	680	5%	1/10W
R505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R506	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R507	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R508	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R509	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R510	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R511	1-216-819-11	METAL CHIP	680	5%	1/10W
R512	1-216-819-11	METAL CHIP	680	5%	1/10W
R513	1-216-819-11	METAL CHIP	680	5%	1/10W
R514	1-216-821-11	METAL CHIP	1K	5%	1/10W
R515	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R516	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R517	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R518	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R519	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R531	1-216-813-11	METAL CHIP	220	5%	1/10W
R532	1-216-813-11	METAL CHIP	220	5%	1/10W
R533	1-216-813-11	METAL CHIP	220	5%	1/10W
R535	1-216-815-11	METAL CHIP	330	5%	1/10W
R536	1-216-807-11	METAL CHIP	68	5%	1/10W
R537	1-216-807-11	METAL CHIP	68	5%	1/10W
R538	1-216-807-11	METAL CHIP	68	5%	1/10W
R551	1-216-815-11	METAL CHIP	330	5%	1/10W
R552	1-216-815-11	METAL CHIP	330	5%	1/10W
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R554	1-216-821-11	METAL CHIP	1K	5%	1/10W

KEY **MAIN**

Ref. No.	Part No.	Description			Remark
R555	1-216-821-11	METAL CHIP	1K	5%	1/10W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-821-11	METAL CHIP	1K	5%	1/10W
R560	1-216-821-11	METAL CHIP	1K	5%	1/10W
R561	1-216-857-11	METAL CHIP	1M	5%	1/10W
R571	1-216-809-11	METAL CHIP	100	5%	1/10W
R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R573	1-216-809-11	METAL CHIP	100	5%	1/10W
R574	1-216-809-11	METAL CHIP	100	5%	1/10W
R575	1-216-809-11	METAL CHIP	100	5%	1/10W
R576	1-216-809-11	METAL CHIP	100	5%	1/10W
R577	1-216-809-11	METAL CHIP	100	5%	1/10W
R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R579	1-216-809-11	METAL CHIP	100	5%	1/10W
R580	1-216-809-11	METAL CHIP	100	5%	1/10W
		< SWITCH >			
S501	1-786-653-11	SWITCH, TACTILE (EJECT)			
S502	1-786-653-11	SWITCH, TACTILE (EJECT)			
S503	1-786-653-11	SWITCH, TACTILE (OFF)			
S504	1-786-653-11	SWITCH, TACTILE (SOURCE)			
S505	1-786-653-11	SWITCH, TACTILE (MODE)			
S506	1-786-653-11	SWITCH, TACTILE (SEL)			
S507	1-786-653-11	SWITCH, TACTILE (VOL +)			
S508	1-786-653-11	SWITCH, TACTILE (VOL –)			
S509	1-786-653-11	SWITCH, TACTILE (ATT)			
S510	1-786-653-11	SWITCH, TACTILE (SENS/ALBUM –)			
S511	1-786-653-11	SWITCH, TACTILE (1/REP)			
S512	1-786-653-11	SWITCH, TACTILE (2/SHUF)			
S513	1-786-653-11	SWITCH, TACTILE (SEEK +/▶▶I ▶▶)			
S514	1-786-653-11	SWITCH, TACTILE (SEEK –/◀◀ I◀◀)			
S515	1-786-653-11	SWITCH, TACTILE (EQ3)			
S516	1-786-653-11	SWITCH, TACTILE (DSPL)			
S517	1-786-653-11	SWITCH, TACTILE (SCRL)			
S518	1-786-653-11	SWITCH, TACTILE (6/PAUSE)			
S519	1-786-653-11	SWITCH, TACTILE (5/OSD)			
S520	1-786-653-11	SWITCH, TACTILE (4/AUDIO)			
S521	1-786-653-11	SWITCH, TACTILE (3/SLOW)			
S522	1-529-566-61	SWITCH, PUSH (1 KEY) (OPEN)			
S523	1-786-653-11	SWITCH, TACTILE (BTM/ALBUM +)			
**********					
	A-1115-219-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD)			
		**********			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C101	1-126-964-11	ELECT	10uF	20%	50V
C106	1-126-965-11	ELECT	22uF	20%	50V
C107	1-126-964-11	ELECT	10uF	20%	50V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-104-665-11	ELECT	100uF	20%	25V
C111	1-126-964-11	ELECT	10uF	20%	50V
C113	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V

Ref. No.	Part No.	Description			Remark
C408	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C409	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C410	1-126-960-11	ELECT	1uF	20%	50V
C411	1-126-960-11	ELECT	1uF	20%	50V
C412	1-126-960-11	ELECT	1uF	20%	50V
C413	1-126-960-11	ELECT	1uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-126-947-11	ELECT	47uF	20%	35V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C422	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C423	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-126-964-11	ELECT	10uF	20%	50V
C425	1-126-964-11	ELECT	10uF	20%	50V
C426	1-126-964-11	ELECT	10uF	20%	50V
C428	1-126-964-11	ELECT	10uF	20%	50V
C430	1-126-947-11	ELECT	47uF	20%	35V
C433	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C434	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C435	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C436	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C437	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C438	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C439	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C440	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C441	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C443	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C444	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C446	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C447	1-126-961-11	ELECT	2.2uF	20%	50V
C450	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C451	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C453	1-126-964-11	ELECT	10uF	20%	50V
C454	1-126-964-11	ELECT	10uF	20%	50V
C602	1-126-964-11	ELECT	10uF	20%	50V
C604	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C614	1-115-156-11	CERAMIC CHIP	1uF		10V
C618	1-126-947-11	ELECT	47uF	20%	35V
C619	1-126-964-11	ELECT	10uF	20%	50V
C620	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C701	1-124-584-00	ELECT	100uF	20%	10V
C704	1-124-584-00	ELECT	100uF	20%	10V
C705	1-124-584-00	ELECT	100uF	20%	10V
C706	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C707	1-124-584-00	ELECT	100uF	20%	10V
C709	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C711	1-124-589-11	ELECT	47uF	20%	16V
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C809	1-104-665-11	ELECT	100uF	20%	25V
C810	1-125-701-22	DOUBLE LAYERS	0.47F		5.5V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C813	1-104-665-11	ELECT	100uF	20%	25V
C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C816	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C817	1-162-917-11	CERAMIC CHIP	15PF	5%	50V

Ref. No.	Part No.	Description			Remark
C821	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C822	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C825	1-104-665-11	ELECT	100uF	20%	25V
C908	1-123-611-61	ELECT	1uF	20%	50V
C922	1-131-868-81	ELECT	3300uF	20%	16V
C990	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C991	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C992	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C993	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C994	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
		< CONNECTOR >			
CN751	1-779-294-11	CONNECTOR, FFC (LIF(NON-ZIF)) 26P			
CNP800	1-794-311-21	PLUG, CONNECTOR 12P			
CNP901	1-774-701-21	PIN, CONNECTOR 16P			
		< DIODE >			
D301	8-719-056-83	DIODE	UDZ-TE-17-6.8B		
D400	8-719-081-97	DIODE	MMDL914T1		
D600	8-719-036-94	DIODE	RD5.6SB-T1		
D701	8-719-081-97	DIODE	MMDL914T1		
D702	8-719-081-97	DIODE	MMDL914T1		
D801	8-719-081-97	DIODE	MMDL914T1		
D802	8-719-058-24	DIODE	RB501V-40TE-17		
D808	8-719-056-83	DIODE	UDZ-TE-17-6.8B		
D811	8-719-109-97	DIODE	RD6.8ESB2		
D812	8-719-109-97	DIODE	RD6.8ESB2		
D813	8-719-109-97	DIODE	RD6.8ESB2		
D814	8-719-109-97	DIODE	RD6.8ESB2		
D815	8-719-109-97	DIODE	RD6.8ESB2		
D816	8-719-109-97	DIODE	RD6.8ESB2		
D817	8-719-109-97	DIODE	RD6.8ESB2		
D820	8-719-991-33	DIODE	1SS133T-77		
D823	8-719-056-93	DIODE	UDZ-TE-17-18B		
D825	8-719-056-93	DIODE	UDZ-TE-17-18B		
D902	8-719-053-18	DIODE	1SR154-400TE-25		
D903	8-719-053-18	DIODE	1SR154-400TE-25		
D904	6-500-522-01	DIODE	10EDB40-TA1B2		
D905	6-500-522-01	DIODE	10EDB40-TA1B2		
D906	6-500-522-01	DIODE	10EDB40-TA1B2		
D907	6-500-522-01	DIODE	10EDB40-TA1B2		
D908	6-500-522-01	DIODE	10EDB40-TA1B2		
D909	6-500-522-01	DIODE	10EDB40-TA1B2		
D912	8-719-056-93	DIODE	UDZ-TE-17-18B		
D914	8-719-056-83	DIODE	UDZ-TE-17-6.8B		
D915	8-719-056-83	DIODE	UDZ-TE-17-6.8B		
D916	6-500-522-01	DIODE	10EDB40-TA1B2		
D917	6-500-522-01	DIODE	10EDB40-TA1B2		
D918	8-719-987-69	DIODE	DAN217		
D919	8-719-049-38	DIODE	1N5404TU		
D921	6-500-522-01	DIODE	10EDB40-TA1B2		
D922	6-500-522-01	DIODE	10EDB40-TA1B2		
		< FERRITE BEAD >			
FB702	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB901	1-414-813-11	FERRITE, EMI (SMD) (2012)			
FB902	1-414-813-11	FERRITE, EMI (SMD) (2012)			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC100	6-705-360-02	IC	TDA8588BJ/N2/R1		
IC401	6-705-372-01	IC	BD3808FS-FE2		
IC801	6-805-155-01	IC	MB90488BPF-G-135-BNDE1		
IC802	8-759-659-13	IC	PST3428UL		
		< JUMPER RESISTOR >			
JR5	1-216-864-11	SHORT CHIP	0		
JR6	1-216-864-11	SHORT CHIP	0		
JR10	1-414-227-11	INDUCTOR, FERRITE BEAD			
JR12	1-216-864-11	SHORT CHIP	0		
		< COIL >			
JW47	1-410-501-11	INDUCTOR	2.2uH		
L400	1-414-398-11	INDUCTOR	10uH		
L602	1-414-394-41	INDUCTOR	2.2uH		
L700	1-410-509-11	INDUCTOR	10uH		
L701	1-410-501-11	INDUCTOR	2.2uH		
L702	1-410-509-11	INDUCTOR	10uH		
L703	1-414-813-11	FERRITE, EMI (SMD) (2012)			
L900	1-456-617-11	COIL, CHOKE	250uH		
		< JACK >			
PJ401	1-774-700-11	JACK, PIN 6P (AUX IN, AUDIO OUT FRONT/REAR)			
PJ601	1-815-185-13	JACK (ANTENNA)			
		< TRANSISTOR >			
Q400	8-729-421-19	TRANSISTOR	UN2213		
Q401	8-729-424-08	TRANSISTOR	UN2111		
Q402	6-551-070-01	TRANSISTOR	KRC283S-B-RPK/P		
Q403	6-551-070-01	TRANSISTOR	KRC283S-B-RPK/P		
Q404	6-551-070-01	TRANSISTOR	KRC283S-B-RPK/P		
Q405	6-551-070-01	TRANSISTOR	KRC283S-B-RPK/P		
Q406	6-551-070-01	TRANSISTOR	KRC283S-B-RPK/P		
Q407	6-551-070-01	TRANSISTOR	KRC283S-B-RPK/P		
Q601	8-729-920-85	TRANSISTOR	2SD1664-QR		
Q701	8-729-106-60	TRANSISTOR	2SB1115A-YQ		
Q703	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q800	8-729-424-08	TRANSISTOR	UN2111		
Q900	8-729-010-25	TRANSISTOR	MSD601-RT1		
Q902	8-729-421-22	TRANSISTOR	UN2211		
Q906	8-729-010-25	TRANSISTOR	MSD601-RT1		
Q907	8-729-421-19	TRANSISTOR	UN2213		
		< RESISTOR >			
R402	1-216-864-11	SHORT CHIP	0		
R403	1-216-864-11	SHORT CHIP	0		
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-864-11	SHORT CHIP	0		
R409	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R413	1-216-864-11	SHORT CHIP	0		
R414	1-216-809-11	METAL CHIP	100	5%	1/10W
R415	1-216-809-11	METAL CHIP	100	5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W
R417	1-216-809-11	METAL CHIP	100	5%	1/10W
R418	1-216-841-11	METAL CHIP	47K	5%	1/10W
R419	1-216-841-11	METAL CHIP	47K	5%	1/10W
R420	1-216-841-11	METAL CHIP	47K	5%	1/10W
R421	1-216-841-11	METAL CHIP	47K	5%	1/10W
R424	1-216-805-11	METAL CHIP	47	5%	1/10W
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R426	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-833-11	METAL CHIP	10K	5%	1/10W
R429	1-247-807-31	CARBON	100	5%	1/4W
R430	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R431	1-247-807-31	CARBON	100	5%	1/4W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-821-11	METAL CHIP	1K	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-841-11	METAL CHIP	47K	5%	1/10W
R443	1-216-841-11	METAL CHIP	47K	5%	1/10W
R447	1-216-811-11	METAL CHIP	150	5%	1/10W
R448	1-216-841-11	METAL CHIP	47K	5%	1/10W
R468	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R603	1-247-807-31	CARBON	100	5%	1/4W
R604	1-247-807-31	CARBON	100	5%	1/4W
R606	1-216-809-11	METAL CHIP	100	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R702	1-216-033-00	RES-CHIP	220	5%	1/10W
R703	1-216-864-11	SHORT CHIP	0		
R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R708	1-216-864-11	SHORT CHIP	0		
R709	1-216-864-11	SHORT CHIP	0		
R800	1-216-864-11	SHORT CHIP	0		
R801	1-216-809-11	METAL CHIP	100	5%	1/10W
R804	1-216-809-11	METAL CHIP	100	5%	1/10W
R805	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R806	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R809	1-216-845-11	METAL CHIP	100K	5%	1/10W
R810	1-216-845-11	METAL CHIP	100K	5%	1/10W
R812	1-216-845-11	METAL CHIP	100K	5%	1/10W
R813	1-216-845-11	METAL CHIP	100K	5%	1/10W
R814	1-216-845-11	METAL CHIP	100K	5%	1/10W
R815	1-249-435-11	CARBON	33K	5%	1/4W
R816	1-216-821-11	METAL CHIP	1K	5%	1/10W
R817	1-216-821-11	METAL CHIP	1K	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
R821	1-216-817-11	METAL CHIP	470	5%	1/10W
R822	1-469-876-11	INDUCTOR, FERRITE BEAD			
R823	1-216-817-11	METAL CHIP	470	5%	1/10W
R824	1-216-849-11	METAL CHIP	220K	5%	1/10W
R825	1-216-849-11	METAL CHIP	220K	5%	1/10W
R826	1-216-843-11	METAL CHIP	68K	5%	1/10W
R828	1-216-809-11	METAL CHIP	100	5%	1/10W
R830	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R833	1-249-417-11	CARBON	1K	5%	1/4W
R834	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R835	1-216-845-11	METAL CHIP	100K	5%	1/10W
R836	1-216-845-11	METAL CHIP	100K	5%	1/10W
R837	1-216-821-11	METAL CHIP	1K	5%	1/10W
R839	1-216-809-11	METAL CHIP	100	5%	1/10W
R840	1-216-809-11	METAL CHIP	100	5%	1/10W
R841	1-216-809-11	METAL CHIP	100	5%	1/10W
R843	1-216-809-11	METAL CHIP	100	5%	1/10W
R846	1-216-845-11	METAL CHIP	100K	5%	1/10W
R847	1-216-845-11	METAL CHIP	100K	5%	1/10W
R848	1-216-845-11	METAL CHIP	100K	5%	1/10W
R849	1-216-841-11	METAL CHIP	47K	5%	1/10W
R850	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R853	1-216-864-11	SHORT CHIP	0		
R854	1-216-864-11	SHORT CHIP	0		
R860	1-216-845-11	METAL CHIP	100K	5%	1/10W
R873	1-216-845-11	METAL CHIP	100K	5%	1/10W
R901	1-216-845-11	METAL CHIP	100K	5%	1/10W
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R912	1-249-417-11	CARBON	1K	5%	1/4W
R913	1-216-821-11	METAL CHIP	1K	5%	1/10W
R916	1-216-864-11	SHORT CHIP	0		
R917	1-249-421-11	CARBON	2.2K	5%	1/4W
R925	1-216-845-11	METAL CHIP	100K	5%	1/10W
R927	1-216-833-11	METAL CHIP	10K	5%	1/10W
R928	1-249-421-11	CARBON	2.2K	5%	1/4W
R931	1-216-073-00	RES-CHIP	10K	5%	1/10W
R932	1-216-073-00	RES-CHIP	10K	5%	1/10W
R936	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S800	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT)			
S802	1-692-431-21	SWITCH, TACTILE (RESET)			
		< TUNER >			
TUX601	A-3220-961-A	TUNER UNIT (TUX-032)			
		< VIBRATOR >			
X800	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)			
X801	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			

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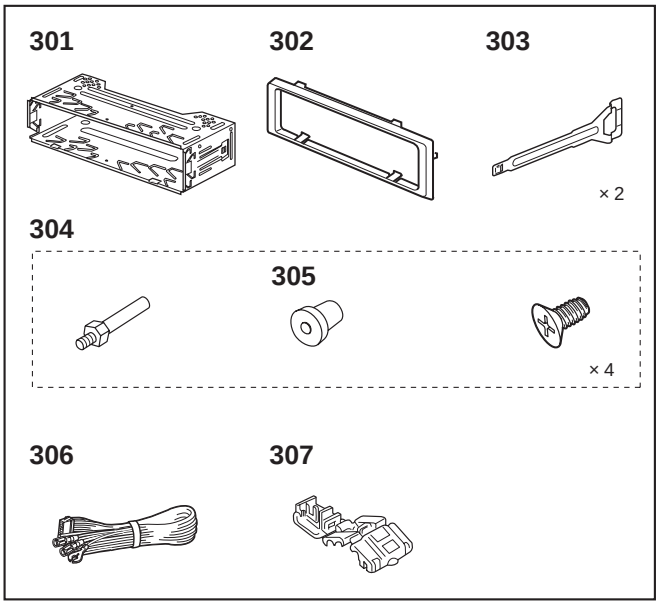
Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
6	1-829-847-11	CABLE, FLAT (FFC) 26P	
8	1-792-194-61	CORD (WITH CONNECTOR) (POWER)	
9	1-829-836-12	CORD, CONNECTION (VIDEO) (VIDEO OUT)	
⚠153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-1075-645-A	CHASSIS (OP) SUB ASSY (including M901)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3372-447-A	MOTOR ASSY, SL (SLED)	
M903	A-1075-643-A	MOTOR ASSY, LE (LOADING)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
**********			
		ACCESSORIES	
		**********	
	1-479-077-82	REMOTE COMMANDER (RM-X158)	
	2-548-729-01	LID, BATTERY CASE (for RM-X158)	
	2-582-332-21	MANUAL, INSTRUCTION (ENGLISH, SIMPLIFIED CHINESE,ARABIC) (E)	
	2-582-333-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SIMPLIFIED CHINESE,ARABIC) (E)	
	2-596-986-11	MANUAL, INSTRUCTION (THAI) (E)	
	2-664-618-11	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE) (CHINESE)	
	2-664-619-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SIMPLIFIED CHINESE,ARABIC) (CHINESE)	
	X-3385-071-1	CASE ASSY (for FRONT PANEL)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
301	X-3382-647-1	FRAME ASSY, FITTING	
302	3-261-542-02	COLLAR	
303	3-246-471-01	KEY (FRAME)	
304	X-3381-154-1	SCREW ASSY (BS4), FITTING	
305	3-349-410-11	BUSHING	
306	1-792-194-61	CORD (WITH CONNECTOR) (POWER)	
307	1-562-593-11	CONNECTOR (CL-2218T)	



REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2005.01	New
1.1	2005.05	Production country change. (ENG-05004)
1.2	2005.11	Chinese model addition.
1.3	2006.05	Correction of RF level. (SPM-06010)